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SURFACE WATER DATA

JAMES BAY AND HUDSON BAY DRAINAGE

1949 - 1963

A TRANSLATION OF A REPORT BY
QUEBEC DEPARTMENT OF NATURAL RESOURCES

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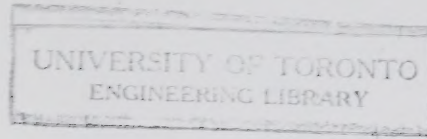
**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**

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SURFACE WATER DATA

**JAMES BAY AND
HUDSON BAY DRAINAGE**

1949 - 1963

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY MINES AND RESOURCES**

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FOREWORD

This publication is a translation of "Annuaire Hydrologique - Versant des Baies James et d'Hudson - 1949-1963" which was compiled and published in French by the Water Branch, Quebec Department of Natural Resources and was prepared in co-operation with the Quebec Water Branch for the convenience of users more familiar with English terminology.

The survey of streamflow and water level data covering most of the Province of Quebec originally was carried out by predecessors of the Inland Waters Branch in co-operation with provincial and other agencies. During 1963 and 1964, however, this activity was taken over by the Quebec Water Branch which now collects and publishes hydrometric data for Quebec.

This publication is a compilation of available discharge data for rivers in Quebec draining to Hudson and James Bays. Although the majority of these data were collected by agencies of the Quebec government and are being published for the first time by the Quebec Water Branch, data for some of these streams were collected and published in Water Resources Papers of the Federal Agency. However, some of the data have been revised in light of better definition of water level-discharge relationships or have been extended as the result of subsequent review and are republished herein.

The discharge data not previously published together with the revisions to previously published data have been developed by the Quebec Water Branch and enquiries pertaining to them should be addressed to Director General, Water Branch, Department of Natural Resources, Quebec, P.Q. Enquiries pertaining to data published in Water Resources Papers should be addressed to Director, Inland Waters Branch, Department of Energy, Mines and Resources, 588 Booth Street, Ottawa 4, Ontario.

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INTRODUCTION

This publication contains the results of hydrometric surveys conducted prior to 1964 on Quebec rivers tributary to James Bay and Hudson Bay.

During the period 1949 to 1963, nine discharge stations and two water level stations were placed in service and maintained by the then Federal Water Resources Branch and the provincial authorities. The data at these stations were published in Water Resources Papers of the Federal Branch which had the responsibility for publishing the data. Effective April 1, 1963, however, the provincial authorities assumed complete responsibility for the stations.

In addition to the previously mentioned stations, the provincial authorities retained consulting engineers during the period 1959-1961 to establish a network of nineteen stations in the Eastmain, Grande Rivière and Grande Rivière de la Baleine Basins. In 1961, the Provincial Water Branch took over operation of this latter network and added another ten stations, five of which are in the Petite Rivière de la Baleine Basin.

A detailed analysis of certain hydrological characteristics has made it possible to estimate discharges for some periods where there was a lack of basic data and in some cases, to revise data previously published. The data herein include all the discharges and water levels for the period 1949 to 1963 in the James Bay and Hudson Bay region with the exception of three stations on the Harricana, Bell (at Senneterre) and Megiscane Rivers for which data are published only in Water Resources Papers.

On page 200 are listed the stations for which discharges were previously published in Water Resources Papers but for which revised data are published herein. Shown for each station is the name under which it was previously published and the specific numbers of the Water Resources Papers in which it appeared. Also given is the respective station number now used and the number previously used.

Data subsequent to December 1963 will be included in the regular annual hydrological reports for Quebec.

GAUGING STATIONS

At the end of 1963, the gauging station network consisted of 32 stations, 29 of which were equipped with a recorder and three with a manual gauge read once or twice each day. Moreover, miscellaneous discharges were obtained for three other stations.

For each discharge station, there is a direct relationship between the water levels and the corresponding discharges. This relationship is used to calculate the daily discharges at the station using the water levels recorded at the station as basic data. The relationship is defined by discharge measurements. During the winter period, the relationship breaks down for certain periods due to the presence of ice in the channel or at the control section. Regular discharge measurements are made each winter to determine these backwater effects, making possible the calculation of the discharges for these periods.

WATER LEVEL STATIONS

The hydrometric network includes six water level stations on principal lakes in the region. Three stations are equipped with a manual gauge read once daily while the three others, equipped with water level recorders, are operated during certain periods of the year. At the last-mentioned three stations, water level observations have been made irregularly between the periods of recording.

THE DATA

The map presented at the beginning of this publication shows the site of each of the hydrometric stations.

The presentation of the hydrometric stations in this publication is in a south to north

order beginning with main stem stations of the stream, and followed by its tributary stations. On each main stem, the stations are listed in a downstream to upstream order. On tributaries, the stations are also classified in a downstream to upstream order beginning with the most downstream tributary.

Discharge Stations

For each station, the following information is given:

1. The official name of the station.
2. The station number.
 - a) The first two figures indicate the hydrographic region.
 - b) The following two figures identify the drainage basin of the main stream.
 - c) The last two figures indicate the particular number of the station situated within this drainage basin.
3. The size of the drainage area in square miles to three significant figures. These areas have been determined using the most recent maps, but are subject to revision when more detailed maps become available.
4. The year the station was put into service, that is, the beginning of continuous recording of the water levels. In some cases, discharge measurements have been made before the start of systematic collection of the water levels.
5. The equipment used to obtain the water level data; recording or manual gauge.
6. The nature of the daily discharges, either natural or regulated. The discharges published in the present report are natural, unaffected by human activities.
7. The daily discharges for the calendar year are given in cubic feet per second (cfs) to three significant figures. Moreover, the monthly mean discharges, daily maximum and minimum, and the monthly coefficient of discharge also are indicated for each month. The monthly coefficient of

discharge expresses the relation between the monthly mean discharge and the annual mean discharge.

The explanation of the symbols used in the tables is as follows:

- * - A discharge measurement was made on this date.
- B - The start or the end of a period when the water levels have been affected by backwater due to presence of ice.
- I - The days for which the discharges have been determined by interpolation in the absence of water level records.
- C - The start or the end of a period for which the discharges have been determined by comparison with the flow of an adjacent river. The symbol is used on the first day of each month when these conditions exist for consecutive months.
- E - The start or the end of a period for which the discharges have been estimated. This symbol is used on the first day of each month when these conditions exist for consecutive months.

Regarding the two last paragraphs, if during any month, more than four daily discharges are estimated or obtained by comparison, the value of the monthly mean discharge is considered estimated.

8. Following the tabulation of the daily discharges, a summary is given of the main characteristics of the discharges for the current year and for all the years recorded, that is:

- a - the mean
- b - the daily maximum and minimum
- c - the instantaneous maximum and minimum

The number of years of record corresponds to the number of calendar years of complete data.

9. Near the bottom of the page, the footnotes summarize:

- a) recapitulation of the periods when there was backwater effect, interpolation, estimates or comparison.
- b) the limits outside of which the discharge values are obtained by extrapolation.
- c) precision of the daily discharges: a general estimate of the quality of the data is defined in the following terms:
 - i) excellent - probable error less than 5%
 - ii) good - probable error between 5% and 10%
 - iii) fair - probable error between 10% and 15%
 - iv) poor - probable error more than 15%

It may be that some of the daily discharges have a probable error exceeding 20%; if this is the case, the discharges are considered estimated (E).

- d) When it is necessary, other particulars

pertaining to the data available are indicated.

Water Level Stations

The information given for each station is similar to that for discharge stations, that is, the official name and number for each station, the year it was placed in service and the type of gauge used.

The daily water levels are expressed in feet and referenced to an assumed elevation of a local bench mark. In some cases, the symbol "I" is used to identify water levels that have been calculated by interpolation. Shown for each month are the mean and the daily maximum and minimum water levels.

Following the table of daily water levels is a summary of the main data for the current year and for all of the years recorded, that is

- a) the mean
- b) the daily maximum and minimum
- c) the instantaneous maximum and minimum

Near the bottom of the page, footnotes indicate the number and assumed elevation of the bench mark and, if necessary, any other particulars related to the data collected.

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1956

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	48,800*	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.

Accuracy of records: good.

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	29,400*	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	50,300*	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	12,200*	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	82,000*	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	31,600*	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	36,000*	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.

Accuracy of record: good.

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	24,000E	16,300E	13,100E	--	--	--	--	--	54,400E	40,500E	31,700E	27,000E
2	23,500	16,200	13,000	--	--	--	--	--	53,900	40,200	31,500	26,700
3	23,200	16,000	13,000	--	--	--	--	--	53,500	40,200	31,500	26,500
4	22,900	15,800	12,900	--	--	--	--	--	52,800	40,200	31,400	26,200
5	22,500	15,700	12,800	--	--	--	--	--	52,200	40,200	31,300	26,000
6	22,200	15,600	12,800	--	--	--	--	--	51,700	40,200	31,200	25,700
7	22,000	15,500	12,700	--	--	--	--	--	50,500	40,200	31,000	25,400
8	21,800	15,400	12,600	--	--	--	--	--	50,000	40,200	30,900	25,200
9	21,400	15,300	12,500	--	--	--	--	--	49,600	40,100	30,900	25,000
10	21,000	15,200	12,400	--	--	--	--	--	49,200	40,000	30,800	24,800
11	20,800	15,100	12,300	--	--	115,000*	--	--	48,700	39,700	30,400	24,600
12	20,500	14,900	12,200	--	--	--	--	--	48,300	39,500	30,300	24,400
13	20,300	14,800	12,200	--	--	--	--	--	47,900	39,000	30,100	24,100
14	20,000	14,700	12,100	--	--	--	--	--	47,500	38,500	30,000	23,900
15	19,800	14,600	12,100	--	--	--	--	67,900	47,200	38,000	30,000B	23,700
16	19,600	14,500	12,000	--	--	--	--	67,600	46,800	37,700	29,900	23,500
17	19,300	14,400	11,900	--	--	--	--	67,900	46,300	37,000	29,800	23,200
18	19,000	14,300	11,900	--	--	--	50,900*	66,800*	45,900	36,700	29,700	23,000
19	18,800	14,200	11,900	--	--	--	--	65,700	45,800	36,000	29,600	22,800
20	18,600	14,100	11,800*	--	--	--	--	64,300	45,700E	35,800	29,500	22,600
21	18,300	14,000	11,800	--	--	--	--	63,600	45,500	35,300	29,300	22,300
22	18,000	13,900	11,700	--	--	--	--	63,400	45,000E	35,000	29,000	22,000
23	17,800	13,800	11,700	--	--	--	--	62,600	44,500	34,500	28,700	21,800
24	17,600	13,700	11,600	--	--	--	--	61,400	43,800	34,000	28,500	21,600
25	17,400	13,700*	11,600	--	--	--	--	60,300	42,500	33,700	28,300	21,400
26	17,200	13,500	11,500	--	--	--	--	59,000E	42,000	33,200	28,100	21,200
27	17,000*	13,400	11,400	--	--	--	--	57,500	42,000	33,000	28,000	21,000
28	16,800	13,300	11,400	--	--	--	--	56,800	41,500	32,500	27,700	20,800
29	16,700	13,200	11,300	--	--	--	--	56,100	42,000	32,500	27,500	20,500
30	16,600	--	11,300	--	--	--	--	55,700	40,800	32,000	27,300	20,200
31	16,500	--	11,200E	--	--	--	--	55,000	--	31,900	--	20,000
MEAN	19,700E	14,700E	12,100E	--	--	--	--	--	47,300E	37,000E	29,800E	23,500E
MAX.	24,000E	16,300E	13,100E	--	--	--	--	--	54,400E	40,500E	31,700E	27,000E
MIN.	16,500E	13,200E	11,200E	--	--	--	--	--	40,800E	31,900E	27,300E	20,000E

FOR THE YEAR 1960

MEAN

--

MAXIMUM

115,000 cfs on June 11

MAXIMUM INSTANTANEOUS

--

MINIMUM

11,200E cfs on March 31

MINIMUM INSTANTANEOUS

--

NOTES:

* - Discharge measurement.

B - Ice effect to March 31 and from November 15.

E - Estimated to March 31, August 26 to September 20 and from September 22.

Stage discharge relation is extrapolated above 115,000 cfs and below 24,000 cfs.

Accuracy of records: poor.

Seven discharge measurements were made from 1956 to 1959.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3AD-1).

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	20,000	14,600	10,900	8,900	25,000E	72,000E	42,500I	23,900	19,800	39,300	38,700	36,100E
2	19,800	14,400	10,800	8,800	27,500	71,000	41,000I	23,300	19,800	40,700	38,000	36,000
3	19,600	14,200	10,700	8,700	31,000	70,000	40,500I	23,300	20,000	42,300	38,200	35,700
4	19,400	14,100	10,700	8,650	33,500	69,000	39,600I	23,100	20,900	43,600	39,100	35,400
5	19,200	14,000	10,600	8,650	36,500	68,000	39,000I	23,000	21,800	44,100	40,700	35,200
6	19,000	14,000	10,600	8,600	41,000	67,000	38,200I	22,600	22,400	45,400	41,600	35,000
7	18,800	13,800	10,500	8,600	46,000	66,000E	36,900	22,200	23,600	46,200	42,200	34,200
8	18,600	13,600	10,400	8,500	51,000	65,800	36,400	22,000	24,400*	46,900	42,700	33,800
9	18,400	13,400	10,300	8,450	55,500	64,500I	35,800	21,500	25,300	47,100	43,500	33,500
10	18,200	13,300	10,300	8,450	60,000	64,000I	34,800	21,100	26,100	47,000	43,300	33,000
11	18,000	13,100	10,200	8,400	64,000	64,000I	34,400	21,000	27,200	47,000	42,500	32,600
12	17,800	13,000	10,100	8,350	67,000	63,500I	33,500	20,900	28,100	46,800	42,300	32,000
13	17,600	12,800	10,000	8,300	71,000	63,000*	32,700	21,000	28,200	46,300	42,200	31,500
14	17,400	12,600	9,980	8,250	73,000	62,500I	31,800	20,300	28,300	47,300	41,600E	30,800
15	17,200	12,500	9,920	8,200E	74,000	62,000I	30,800	20,000	29,000	46,700	41,000	30,000
16	17,000	12,400	9,850	8,200	75,500	61,000I	30,300	20,000	29,800	46,800	40,500	29,800
17	16,800	12,300	9,820	8,300	76,500	59,000I	29,900	19,500	30,900	46,200	39,800	29,000
18	16,600*	12,200	9,770	8,500	77,500	57,500I	29,600	19,100	32,100	46,100	39,500	28,500
19	16,400	12,000	9,690	8,900	78,000	56,000I	29,000	19,100	33,800	45,700	39,200	28,000
20	16,200	11,800	9,640	9,400	79,000	54,600I	28,800	19,100	35,100	45,300	39,000B	27,500
21	16,000	11,700	9,600	10,200	79,000	53,500I	28,300	18,900	36,300	44,700	38,700	27,000
22	15,800	11,600	9,570	10,800	79,500	52,000I	27,900	18,800	37,200	43,900	38,300	26,300
23	15,800	11,500	9,540*	11,800	79,500	50,500I	27,400	18,700	37,500	42,900	38,000	25,800
24	15,700	11,500*	9,500	13,000	79,000	49,500I	27,000	18,700	37,400	42,400	37,700	25,200
25	15,500	11,400	9,420	14,500	78,500	48,500I	26,800	18,800	36,900	41,700	37,500	24,700
26	15,400	11,300	9,380	16,500	78,000	47,500I	26,200*	18,900	36,900	41,500	37,000	24,200
27	15,200	11,200	9,300	18,200	77,500	46,500I	25,600	19,100	36,800	41,300	36,900	23,500
28	15,000	11,100	9,220	19,300	75,500	45,000I	25,400	19,200	37,000	40,700	36,700	23,000
29	14,900	--	9,150	21,000	75,000	44,000I	25,100	19,400	37,200	40,500	36,500	22,300
30	14,800	--	9,080	22,500B	74,000	43,300I	25,100	19,600	37,600	39,800	36,300	21,500
31	14,700	--	8,990	--	73,000	--	24,500	19,700	--	39,100	--	21,000E
MEAN	17,100	12,700	9,920	11,000E	64,200E	58,700E	31,800	20,500	29,900	44,000	39,600E	29,400E
MAX.	20,000	14,600	10,900	22,500E	79,500E	72,000E	42,500I	23,900	37,600	47,300	43,500	36,100E
MIN.	14,700	11,100	8,990	8,200E	25,000E	43,300I	24,500	18,700	19,800	39,100	36,300E	21,000E
M.F.C.	.555	.411	.321	.355	2.082	1.902	1.029	.664	.969	1.427	1.285	.953

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

30,800 cfs

30,800 cfs

MAXIMUM

79,500E cfs on May 23

115,000 cfs on June 11, 1960

MAXIMUM INSTANTANEOUS

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MINIMUM

8,200E cfs on April 16

8,200E cfs on April 16, 1961

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to April 30 and from November 20.

I - Interpolated.

E - Estimated April 15 to June 7 and from November 14.

Stage discharge relation is extrapolated above 115,000 cfs and below 24,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3AD-1).

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	21,000	14,500	12,600	9,750	58,000	104,000E	54,400	28,000	29,500	27,500	25,100	17,300E
2	20,500	14,400	12,500	9,660	62,600	108,000	52,600	27,500	29,900	27,500	25,100	17,000
3	20,000	14,300	12,400	9,570	66,200	112,000	50,800	27,500	29,700	27,200	24,800	16,800
4	19,800	14,200	12,200	9,480	68,700	115,000	49,500	27,800	29,300	26,500	23,700	16,700
5	19,400	14,100	11,700	9,420	69,900	116,000	47,300	28,200	28,900	26,300	23,700	16,500
6	19,000	14,000	11,400	9,390	71,100	116,000	45,600	28,600	28,500	25,900	23,300	16,300
7	18,700	13,900	11,200	9,390	71,600	115,000E	44,300	29,000	28,300	25,600	22,800	16,100
8	18,200	13,700	11,100	9,510	72,700	113,000	43,100	29,600*	28,100	25,300	22,400	16,000
9	18,000	13,500	11,000	9,900	73,600	110,000	42,800	29,700	28,200	25,100	22,000E	15,700
10	17,800	13,300	10,900	10,100	75,300	106,000	41,200	29,800	28,200	25,100	21,900	15,600
11	17,400	13,200	10,800	10,800	77,700	103,000	40,100	29,900	28,500	25,100	21,700	15,400
12	17,000	13,100	10,700	11,500	79,800	98,800	39,100	30,000	28,700	25,600	21,400	15,300
13	16,800	13,100	10,600	12,000	82,700	95,400	38,100	30,200	29,100	25,200	21,000	15,200
14	16,500	12,900	10,500	12,700	84,100	91,000	37,100	30,800	29,700	25,100	20,800	15,100
15	16,100	12,900	10,500	13,500	85,400	88,300	36,600	30,500	29,900	25,100	20,500	15,000
16	16,000	12,900	10,400	14,500	87,000E	85,100	36,500	30,600	29,800	25,100	20,200B	14,900
17	15,900	12,900	10,400	15,500	88,500	82,800	35,800	30,700	29,600	25,300	20,000	14,800
18	15,800*	12,900	10,400	16,500	90,000	79,700	35,300	31,300	29,700	25,100	19,900	14,800
19	15,700	12,900	10,200	17,500	91,000	78,100	34,500	31,500	30,000	25,400	19,700	14,700
20	15,600	12,900	10,200	18,500	92,000	75,400	33,500	31,400	29,900	26,000	19,500	14,600
21	15,500	12,900*	10,200	20,000	93,500	73,300	33,400	31,100	29,800	26,000	19,200	14,500
22	15,500	12,900	10,100	22,500	95,000	71,100	32,700	30,000	29,500	26,000	19,000	14,400
23	15,400	12,900	10,100	24,800	96,000	69,400	31,800	30,000	29,500	26,500	18,700	14,300
24	15,300	12,700	10,100	26,500	97,500	67,500	30,900	29,400	29,400	26,500	18,500	14,100
25	15,200	12,700	10,100	28,300B	98,500	65,400	30,400	29,600	29,300	26,500	18,300	13,900
26	15,000	12,700	10,000	30,800	99,500	63,300	29,800	29,500	29,300	26,100	18,200	13,800
27	14,900	12,600	10,000	34,500	100,000	61,500	29,700	29,600	28,800	26,000	18,000	13,600
28	14,800	12,600	9,960	40,500	100,000	59,500	29,000	29,800	27,900	26,000	17,900	13,500
29	14,700	--	9,930	46,100	100,000	57,800	28,500	29,400	27,500	25,900	17,700	13,300
30	14,600	--	9,870	52,300	102,000	56,100	28,500	29,000	27,400	25,500	17,500	13,100
31	14,500	--	9,840*	--	103,000	--	28,500	28,800	--	25,100	--	13,000E
MEAN	16,800	13,300	10,700	18,800	84,900E	87,900E	37,800	29,600	29,100	25,800	20,800E	15,000E
MAX.	21,000	14,500	12,600	52,300	103,000E	116,000E	54,400	31,500	30,000	27,500	25,100	17,300E
MIN.	14,500	12,600	9,840*	9,390	58,000	56,100	28,500	27,500	27,400	25,100	17,500E	13,000E
M.F.C.	.514	.406	.328	.577	2.602	2.694	1.157	.907	.890	.791	.635	.459

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 32,600 cfs

MAXIMUM 116,000E cfs on June 5 and 6

MAXIMUM INSTANTANEOUS --

MINIMUM 9,390 cfs on April 6 and 7

MINIMUM INSTANTANEOUS --

31,700 cfs

116,000E cfs on June 5 and 6, 1962

--

8,200E cfs on April 16, 1961

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NOTES:

* - Discharge measurement.

B - Ice effect to April 25 and from November 16.

E - Estimated May 16 to June 7 and from November 9

Stage discharge relation is extrapolated above 115,000 cfs and below 24,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3AD-1)

NOTTAWAY

AT HEAD OF SOSCUMICA LAKE

STATION NUMBER 080701

DRAINAGE AREA - 22200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	12,800	8,800	8,060	7,800	34,000	51,200	56,000	41,500	34,500I	26,600	18,900	20,500E
2	12,600	8,750	8,050	7,790	35,800	51,300	55,800	41,300	33,900I	26,000	19,200	20,800
3	12,400	8,750	8,040	7,790	37,600	51,400	55,400	40,900	33,000I	25,700	19,500	21,000
4	12,200	8,700	8,040	7,780	39,200	51,400	55,400	40,800	32,500I	25,100	18,900	21,300
5	12,000	8,650	8,030	7,780	40,800	51,400	55,100	40,600	32,000I	24,700	18,800	21,700
6	11,800	8,600	8,020	7,770	42,500	51,600	54,700	40,400	31,600I	24,500	18,600	22,000
7	11,600	8,600	8,020	7,790	43,000	51,600	54,700	40,400*	31,000I	24,000	18,400	22,200
8	11,500	8,550	8,010	7,800	44,400	51,600	54,400	40,200I	30,500I	23,500	18,400	22,400
9	11,400	8,500	8,000	7,820	45,700	51,700	53,500	40,000I	30,400*	23,100	18,400	22,600
10	11,200	8,450	8,000	7,840	46,400	51,300	53,200	39,500I	29,900	22,900	18,400	22,800
11	11,000	8,400	7,990	7,870	47,200	50,300	53,200	39,000I	29,600	22,900	18,400	22,900
12	10,800	8,400	7,980	7,900	47,800	49,600	52,100	38,500I	29,700	22,400	18,700	23,000
13	10,700	8,350	7,980	8,000	48,600	48,300	51,600	38,000I	29,600	22,000	19,200	23,000
14	10,600	8,350	7,970	8,200	50,600	47,800	50,800	37,700I	29,400	21,800	19,300E	23,000
15	10,400	8,300	7,960	8,500	51,800	46,600	50,200	37,500I	29,300	21,200	19,200B	23,000
16	10,300	8,250	7,950	9,100	51,700	45,600	49,800	37,400I	29,700	21,200	19,100	22,800
17	10,200	8,250	7,950	10,000	50,700	45,000	49,500	37,300I	30,300	21,000	19,000	22,500
18	10,000	8,200	7,940	10,900	50,200E	44,400	49,500	37,200I	30,400	20,800	19,000	22,300
19	9,900	8,200	7,940	12,500	50,000	43,800	49,500	37,200I	31,000	20,600	19,000	22,000
20	9,800	8,200	7,930*	14,200	49,900	43,700	49,500	37,400I	30,800	20,600	19,000	21,800
21	9,750	8,160	7,920	15,500	50,000	45,300	49,500	37,800	30,700	20,200	19,100	21,500
22	9,650	8,140	7,910	17,200	51,000	47,200	49,400	37,800I	30,800	19,400	19,100	21,200
23	9,400	8,110*	7,900	19,500	51,500	49,100	48,800	37,900I	30,800	19,400	19,200	21,000
24	9,300	8,100	7,880	21,200	51,500	51,400	47,500	37,900I	30,300	19,200	19,300	20,800
25	9,150	8,100	7,870	23,000	51,300	53,400	47,000	37,900I	29,600	19,200	19,400	20,400
26	9,040*	8,090	7,860	24,500	51,000	55,500	46,000I	37,900I	29,400	19,200	19,500	20,100
27	9,000	8,080	7,850	26,000	50,500	56,600	45,500I	37,800I	29,100	19,200	19,600	19,900
28	8,950	8,070	7,840	28,300	50,300	56,600	44,500I	37,500I	28,400	19,200	19,800	19,500
29	8,900	--	7,830	31,100	50,700E	56,700	44,000I	37,000I	28,100	19,200	20,000	19,100
30	8,850	--	7,820	32,400B	51,100	56,600	43,000I	36,200I	27,600	19,200	20,100	18,800
31	8,850	--	7,810	--	51,100	--	42,000I	35,500I	--	19,200	--	18,500E
MEAN	10,500	8,360	7,950	13,800	47,400E	50,300	50,400	38,500	30,500	21,700	19,100E	21,400E
MAX.	12,800	8,800	8,060	32,400	51,800	56,700	56,000	41,500	34,500I	26,600	20,100E	23,000E
MIN.	8,850	8,070	7,810	7,770	34,000	43,700	42,000I	35,500I	27,600	19,200	18,400	18,500E
M.F.C.	.390	.312	.296	.515	1.768	1.877	1.880	1.438	1.137	.811	.712	.800

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN	26,800 cfs	30,100 cfs
MAXIMUM	56,700 cfs on June 29	116,000E cfs on June 5 and 6, 1962
MAXIMUM INSTANTANEOUS	57,000 cfs on June 28 at 4 p.m.	--
MINIMUM	7,770 cfs on April 6	7,770 cfs on April 6, 1963
MINIMUM INSTANTANEOUS	--	--

NOTES:

* - Discharge measurement.

B - Ice effect to April 30 and from November 15.

I - Interpolated.

E - Estimated May 18 to 29 and from November 14.

Stage discharge relation is extrapolated above 115,000 cfs and below 24,000 cfs

Accuracy of records: fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3AD-1).

BELL

4.8 MI. FROM MATAGAMI LAKE INLET

STATION NUMBER 080707

DRAINAGE AREA - 8370 SQ. MI.

STATION IN OPERATION SINCE 1962

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	5,050E	3,640	3,150	26,800E	51,800	12,200	6,650	5,950	6,760	6,320	4,230
2	--	5,000	3,650	3,220	28,000	56,400	11,900	6,600	5,710I	6,670	6,230	4,250
3	--	4,900	3,540	3,360	28,700	57,300	11,700	6,690	5,650I	6,580	6,230	4,300
4	--	4,800	3,490	3,550	29,600	55,500	10,900	6,780	5,600I	6,400	5,980	4,330
5	--	4,750	3,420	3,800	30,300	50,900	10,400	9,350	5,670I	6,250	5,900	4,360
6	--	4,700	3,390	3,990	31,100	46,700	9,970	10,600	5,730	6,180	5,800B	4,400
7	--	4,600	3,380	4,020	32,000	42,200	9,540	11,900	6,050	6,110	5,610	4,400
8	--	4,550	3,380*	4,370	33,000	37,700	9,300	12,500	6,830	6,080	5,490I	4,400
9	--	4,500	3,360	4,680	33,500	34,000	9,080	12,200	7,300	6,050	5,440I	4,400
10	--	4,450	3,300	5,060	34,400	31,200	9,190	11,200	7,890	6,010	5,360I	4,400
11	--	4,350	3,250	5,360	35,000	28,200	9,300	10,300	8,530	6,000	5,280	4,370
12	--	4,300E	3,220	6,080	35,500	26,400	9,450	9,230	8,960	6,080	5,250	4,350
13	--	4,210*	3,200	6,880	36,500	24,800*	9,300	8,680	9,210	6,160	5,180	4,300
14	--	4,170	3,140	7,200	37,000	23,300	9,300	8,240	9,210	5,980	5,130	4,270
15	--	4,090	3,100	8,000E	38,500	21,600	9,250	8,900*	9,450	10,800	5,070	4,230
16	--	4,070	3,120	8,800	39,500	21,100	9,210	9,580	10,200	11,100	4,910	4,180
17	--	4,040	3,110	9,600	40,500	19,800	9,050	9,700	10,700	9,620	4,830	4,130
18	--	4,010	3,120	10,700	41,900	20,000	8,650	9,580	10,700	9,580	4,790	4,080
19	--	3,980	3,120	11,800	42,500	19,800	8,440	9,120	10,500	9,490	4,720	4,050
20	--	3,930	3,100	12,500	42,700	18,600	8,390	8,460	10,400*	8,760	4,700	4,000
21	--	3,840	3,090*	13,300	42,800E	18,200	8,120	7,830	10,700	8,650	4,660	3,950
22	--	3,780	3,060	14,200	42,800*	17,600	7,710	7,450	9,680	8,550	4,640	3,900
23	--	3,710	3,020	15,100	42,000	17,200	7,570	6,890	9,210	7,910	4,600	3,850
24	--	3,660	3,000	16,500	41,300	16,200	7,420	6,620	9,210	7,710	4,550	3,800
25	--	3,630	2,980	17,800	39,800	15,300	7,380	6,270	8,760	7,510	4,490	3,750
26	--	3,620	2,960	19,100	38,800	14,900	7,320	6,180	8,330	7,420	4,430	3,700
27	--	3,630	2,940	21,400	36,900	14,600	6,760	6,150	7,910	7,320	4,350	3,600
28	--	3,620	2,900	23,500	35,000	14,300	6,850	6,180	7,510	7,030	4,310	3,550
29	--	--	2,870	24,500	35,000	13,600	6,890	6,110	7,220	6,760	4,260	3,500
30	--	--	2,950	25,800B	35,100	12,800	6,870	6,030	6,940	6,670	4,210	3,450
31	--	--	3,040	--	42,400	--	6,780	5,950	--	6,490	--	3,400
MEAN	--	4,210E	3,190	10,600E	36,400E	28,100	8,840	8,320	8,190	7,500	5,090	4,060
MAX.	--	5,050E	3,650	25,800E	42,800E	57,300	12,200	12,500	10,700	11,100	6,320	4,400
MIN.	--	3,620	2,870	3,150	26,800E	12,800	6,760	5,950	5,600I	6,000	4,210	3,400

FOR THE YEAR 1962

MEAN --

MAXIMUM 57,300 cfs on June 3

MAXIMUM INSTANTANEOUS --

MINIMUM 2,870 cfs on March 29

MINIMUM INSTANTANEOUS --

NOTES:

* - Discharge measurement.
 B - Ice effect to April 30 and from November 6.
 I - Interpolated.
 E - Estimated February 1 to 12 and April 15 to May 21.
 Stage discharge relation is extrapolated above 46,600 cfs and below 8,300 cfs.
 Accuracy of records: periods without effect of ice, good; those with ice effect, fair.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3AC-4).

BELL

4.8 MI. FROM MATAGAMI LAKE INLET

STATION NUMBER 080707

DRAINAGE AREA - 8370 SQ. MI.

STATION IN OPERATION SINCE 1962

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	3,380	2,700	2,370	2,390	25,600	18,900	17,700	12,000	14,800	9,650	7,690	9,900E
2	3,350	2,680	2,360	2,410	25,600	18,900	18,500	11,700	14,400	9,470	8,140	9,500
3	3,300	2,660	2,330	2,490	26,000	18,500	19,100	11,300	13,700	8,940	8,610	9,100
4	3,230	2,650	2,330	2,530	26,400	18,100	20,600	11,900	13,400	8,780	9,230	8,950
5	3,200	2,630	2,340	2,610	26,800	17,700	21,100	12,700	13,300	8,610	9,120	8,700
6	3,160	2,620	2,370	2,640	27,500	17,300*	20,800	14,700	13,100	8,530	9,010	8,500
7	3,120	2,600	2,370	2,660	27,100	16,700	19,300	17,300	13,400	8,370	8,780	8,250E
8	3,090	2,580	2,400	2,730	26,200*	16,200	17,700	17,700	12,800	8,330	8,740	8,150
9	3,050	2,560	2,430	2,800	25,300	14,900	16,600	18,100	12,100	8,310	8,760	8,050
10	3,030	2,540	2,440	2,880	24,300	14,400	17,000	17,400	11,600	8,120	8,900	7,930
11	3,070	2,520	2,420	2,980	23,600	14,200	16,800	16,600	11,700	7,970	9,010	7,760
12	3,000	2,500	2,420B	3,050	22,600	13,100	17,400	15,500	11,500	7,850	10,100	7,610
13	2,970	2,490*	2,420*	3,200	22,000	12,400	17,200	14,500	14,000	7,770	11,500	7,500
14	2,950	2,490	2,400	3,360	21,300	11,800	16,900	14,900	17,800	7,710	12,000	7,390
15	2,940	2,580	2,400	3,630	21,300	11,200	16,600	14,300	21,500	7,400	12,800	7,350
16	2,920*	2,610	2,360	4,120	21,200	11,000	16,500	13,200	19,700	7,300	12,300	7,180
17	2,900	2,540	2,360	5,390	21,400	10,700	16,400	13,600	18,300	7,240	11,900	7,010
18	2,880	2,570	2,320	6,070	21,700	10,600	16,100*	13,400	17,400*	7,220	11,700	6,560
19	2,860	2,530	2,320	8,990	22,200	11,000	15,900	13,500	16,400	7,030	11,500	6,460
20	2,850	2,500	2,290	13,400	23,000	13,300	15,800	14,900	15,500	6,850	11,600	6,380
21	2,830	2,540	2,320	16,900	23,200	21,800	15,800	15,900	14,600	6,740	11,000	6,300
22	2,810	2,500	2,340	18,300	23,000	30,700	15,500	16,100	14,300	6,710	10,800	6,250
23	2,800	2,390	2,340	20,100	22,400	35,600	15,200	16,300	13,700	6,780	11,100	6,170
24	2,780	2,440	2,300	20,500	21,400	35,200	14,800	16,600	13,300	6,740	12,100	6,110
25	2,770	2,410	2,290	19,500	20,400	33,700	14,200	17,100	13,000	6,780	13,400B	6,050
26	2,760	2,420	2,300	18,900	19,500	30,400	14,000	17,300*	11,800	6,740	12,700E	6,000
27	2,750	2,420	2,300	19,300	18,500	25,800	13,700	17,100	11,700	7,360	12,100	5,940
28	2,740	2,420	2,300	21,500	17,500	23,300	13,100	16,800	10,700	7,260	11,500	5,720
29	2,730	--	2,310	22,100	16,900	20,500	12,700	16,200	10,200	7,340	11,000	5,520
30	2,720	--	2,310	23,300	17,600	18,500	12,500	15,500	9,950	7,530	10,400	5,370
31	2,710	--	2,350	--	18,100	--	12,300	15,200	--	7,630	--	5,250
MEAN	2,950	2,540	2,350	9,360	22,600	18,900	16,400	15,100	14,000	7,710	10,600E	7,190E
MAX.	3,380	2,700	2,440	23,300	27,500	35,600	21,100	18,100	21,500	9,650	13,400	9,900E
MIN.	2,710	2,390	2,290	2,390	16,900	10,600	12,300	11,300	9,950	6,710	7,690	5,250
M.F.C.	.272	.234	.216	.862	2.080	1.740	1.510	1.395	1.289	.711	.975	.663

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (1 Year)

MEAN 10,800 cfs

MAXIMUM 35,600 cfs on June 23

MAXIMUM INSTANTANEOUS --

MINIMUM 2,290 cfs on March 20

MINIMUM INSTANTANEOUS --

10,800 cfs

57,300 cfs on June 23, 1962

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2,290 cfs on March 20, 1963

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NOTES:

* - Discharge measurement.
 B - Ice effect to March 12 and from November 25.
 E - Estimated from November 26.
 Stage discharge relation is extrapolated above 46,600 cfs and below 8,300 cfs.
 Accuracy of records: periods without effect of ice, good; those with ice effect, fair.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3AC-4).

WASWANIPi

AT OUTLET OF WASWANIPi LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1949												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	14,500	10,700E
2	--	--	--	--	--	--	--	--	--	--	14,300	10,600
3	--	--	--	--	--	--	--	--	--	--	14,300	10,400
4	--	--	--	--	--	--	--	--	--	--	14,200	10,300
5	--	--	--	--	--	--	--	--	--	--	14,300	10,100
6	--	--	--	--	--	--	--	--	--	16,100	14,000	10,000
7	--	--	--	--	--	--	--	--	--	16,100	14,200	9,800
8	--	--	--	--	--	--	--	--	--	16,000	13,600	9,600
9	--	--	--	--	--	--	--	--	--	15,800	13,400	9,450
10	--	--	--	--	--	--	--	--	--	16,100	13,400	9,300
11	--	--	--	--	--	--	--	--	--	16,400	13,100	9,180
12	--	--	--	--	--	--	--	--	--	16,100	13,100	9,000
13	--	--	--	--	--	--	--	--	--	16,300	12,800	8,850
14	--	--	--	--	--	--	--	--	--	16,300	12,800	8,700
15	--	--	--	--	--	--	--	--	--	16,000	12,800	8,600
16	--	--	--	--	--	--	--	--	--	15,900	12,700	8,450
17	--	--	--	--	--	--	--	--	--	15,700	12,500	8,320
18	--	--	--	--	--	--	--	--	--	15,600	12,500	8,200
19	--	--	--	--	--	--	--	--	--	15,200	12,100B	8,100
20	--	--	--	--	--	--	--	--	--	15,100	12,000	8,000
21	--	--	--	--	--	--	--	--	--	14,900	11,900	7,930
22	--	--	--	--	--	--	--	--	--	14,600	11,800	7,820
23	--	--	--	--	--	--	--	--	--	14,400	11,700	7,800
24	--	--	--	--	--	--	--	--	--	14,400	11,600	7,750
25	--	--	--	--	--	--	--	--	--	14,400	11,500	7,650
26	--	--	--	--	--	--	--	--	--	15,100	11,400	7,650
27	--	--	--	--	--	--	--	--	--	14,600	11,200	7,600
28	--	--	--	--	--	--	--	--	--	14,600	11,100	7,500
29	--	--	--	--	--	--	--	--	--	14,400	11,000	7,420
30	--	--	--	--	--	--	--	--	--	14,600	10,900	7,350
31	--	--	--	--	--	--	--	--	--	13,800	--	7,320
MEAN	--	--	--	--	--	--	--	--	--	--	12,700	8,690E
MAX.	--	--	--	--	--	--	--	--	--	--	14,500	10,700E
MIN.	--	--	--	--	--	--	--	--	--	--	10,900	7,320E

FOR THE YEAR 1949

MEAN

--

MAXIMUM

16,400 cfs on October 11

MAXIMUM INSTANTANEOUS

--

MINIMUM

7,320E cfs on December 31

MINIMUM INSTANTANEOUS

--

NOTES:

B - Ice effect from November 19.

E - Estimated from December 1.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

WASWANIPi

AT OUTLET OF WASWANIPi LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1950

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	7,220E	5,940E	4,650E	3,990E	6,980E	--	--	24,500	10,800	7,950	15,200E	17,700E
2	7,200	5,880	4,600	3,970	7,680	--	--	24,300	10,500	8,220	15,300	17,500
3	7,160	5,800	4,580	3,960	8,600	--	--	23,800	10,200	7,550	15,800	17,400
4	7,100	5,750	4,550	3,960	9,940	--	--	22,300	9,630	7,810	15,800	17,200
5	7,050	5,700	4,500	3,960	10,800	--	--	22,300	9,490	7,680	15,800	17,000
6	7,000	5,650	4,480	3,960	12,000B	--	--	22,000	9,350	8,080	15,800	16,900
7	7,000	5,600	4,450	3,960	13,000	--	--	21,400	9,210	7,950	16,100	16,700
8	6,950	5,550	4,420	3,960	15,400E	--	--	20,900	9,210	7,810	15,800	16,500
9	6,900	5,500	4,400	3,950	17,300	--	--	20,200	8,520	7,950I	16,300	16,300
10	6,850	5,450	4,400	3,950	20,100	--	--	19,200	8,650	8,080	16,100	16,100
11	6,800	5,400	4,380	3,950	21,500	--	--	18,500	8,380	7,810	16,300	16,000
12	6,780	5,380	4,360	3,950	23,800	--	--	18,000	7,970	7,950	16,400	15,800
13	6,700	5,350	4,340	3,950	25,800	--	--	17,800	7,970	7,150	16,700	15,600
14	6,650	5,300	4,300	3,950	27,800	--	--	17,500	7,840	8,630	16,800	15,400
15	6,610	5,250	4,280	3,950	28,500	--	32,000	16,800	6,920	9,600	16,900	15,100
16	6,600	5,200	4,250	3,970	29,500	--	30,900	16,000	6,940	10,500	17,200	14,900
17	6,550	5,150	4,220	3,990	30,300	--	30,300	15,700	7,200	10,800	17,400	14,700
18	6,510	5,100	4,200	4,000	31,500	--	29,900	15,400	7,730	11,000	17,700B	14,400
19	6,470	5,050	4,180	4,010	32,300	--	29,100	14,900	7,340	11,300	17,800	14,300
20	6,450	5,000	4,160	4,100	--	--	28,400	14,400	7,600	11,500	17,800	14,200
21	6,400	4,980	4,150	4,200	--	--	27,800	13,900	7,500I	12,700	17,800	13,800
22	6,400	4,950	4,120	4,300	--	--	26,800	13,600	7,340	13,000	17,900	13,600
23	6,380	4,900	4,100	4,400	--	--	25,900	13,200	6,310	13,300	17,900	13,300
24	6,320	4,850	4,080	4,600	--	--	26,100	12,900	7,340	13,900	17,900	13,100
25	6,250	4,820	4,060	4,750	--	--	26,100	12,500	7,200	14,400	18,000	12,900
26	6,200	4,800	4,040	4,980	--	--	26,100	12,500	7,070	14,600	18,000	12,600
27	6,150	4,770	4,020	5,250	--	--	26,100	12,400	6,940	15,200	17,900	12,400
28	6,100	4,720	4,010	5,630	--	--	26,100	11,800	7,410*	15,200	17,900	12,100
29	6,050	--	4,000	5,900	--	--	26,100	11,500	7,700I	15,200	17,800	11,900
30	6,000	--	4,000	6,400	--	--	25,900	11,000	7,810	15,100	17,700	11,500
31	5,980	--	4,000	--	--	--	25,400	10,800	--	15,400	--	11,200
MEAN	6,610E	5,280E	4,270E	4,330E	--	--	--	16,800	8,140	10,800	16,900E	14,800E
MAX.	7,220E	5,940E	4,650E	6,400E	--	--	--	24,500	10,800	15,400	18,000E	17,700E
MIN.	5,980E	4,720E	4,000E	3,950E	--	--	--	10,800	6,310	7,150	15,200E	11,200E

FOR THE YEAR 1950

FOR ALL THE YEARS RECORDED (... Years)

MEAN

--

--

MAXIMUM

32,300 cfs on May 19

32,300 cfs on May 19, 1950

MAXIMUM INSTANTANEOUS

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--

MINIMUM

3,950E cfs, April 9 to 15

3,950E cfs, April 9 to 15, 1950

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to May 6 and from November 18.

I - Interpolated.

E - Estimated to May 8 and from November 1.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3AB-1).

WASWANIPi

AT OUTLET OF WASWANIPi LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1951												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	---	---	---	---	29,700	21,400	15,900	10,500	8,430	12,100	19,900	18,900E
2	---	---	---	---	29,700	21,100	15,900	10,800	8,160	12,700	20,100	18,700
3	---	---	---	---	29,700	20,700	15,700	11,100	7,890	13,200	20,800	18,500
4	---	---	---	---	29,700	19,700	15,500	11,400	7,630	13,300	20,600	18,300
5	---	---	---	---	29,700	19,300	15,400	11,700	7,890	14,100	20,800	18,200
6	---	---	---	---	29,700	19,000	15,400	11,700	7,630	15,100	20,600	18,100
7	---	---	---	---	29,700	18,700	15,400	11,700	7,360	16,300	20,500	18,100
8	---	---	---	---	29,700	18,300	14,700	12,000	7,490	16,700	20,600	18,100
9	---	---	---	---	29,700	17,600	14,600	11,400	7,360	16,800	20,300	18,100
10	---	---	---	---	29,300	17,300	13,900	11,400	7,230	17,000	20,300	18,100
11	---	---	---	---	29,300	17,000	13,900	11,400	7,360	17,200	20,100	18,000
12	---	---	---	---	28,900	16,600	13,800	11,400	7,230	17,000	20,100	18,000
13	---	---	---	---	28,200	16,600	13,800	11,100	7,230	17,200	20,100	18,100
14	---	---	---	---	27,000	16,300	13,600	11,100	7,360	17,700	20,100	18,000
15	---	---	---	---	26,700	16,200	13,000	10,500	7,360	17,500	20,300B	18,000
16	---	---	---	---	26,300	16,000	12,700	10,200	7,490	17,200	20,300	17,900
17	---	---	---	---	26,300	15,700	12,500	10,200	7,360	17,000	20,400	17,800
18	---	---	---	---	25,900	15,000	12,500	10,200	7,360	17,000	20,500	17,700
19	---	---	---	---	24,800	15,300	12,500	10,200	7,630	16,800	20,600	17,500
20	---	---	---	---	23,300	15,700	12,700	10,200	7,890	17,000	20,700	17,300
21	---	---	---	---	23,300	16,200	12,200	10,400	7,890	16,700	20,800	17,100
22	---	---	---	---	23,700	16,600	11,600	10,400	8,160	17,200	20,800	16,900
23	---	---	---	---	23,700	17,000	11,200	10,200	8,300	16,500	20,700	16,600
24	---	---	---	---	23,700	17,300	11,200	9,940	8,990	16,800	20,500	16,300
25	---	---	---	---	24,100	17,300	11,600	9,940	9,120	17,000	20,300	16,000
26	---	---	---	---	24,200	17,000	11,500	9,800	9,690	17,500	20,000	15,800
27	---	---	---	---	23,300	17,000	10,300	9,380	10,700	18,400	19,900	15,500
28	---	---	---	---	23,500	16,600	10,300	9,100	12,000	18,700	19,700	15,100
29	---	---	---	---	23,000	16,500	10,300	8,540	12,000	18,900	19,300	14,800
30	---	---	---	---	22,600	16,000	10,800	8,270	12,000	19,400	19,000	14,400
31	---	---	---	---	22,300	--	10,600	8,270	--	19,500	--	14,000
MEAN	---	---	---	---	26,400	17,400	13,100	10,500	8,340	16,600	20,300	17,200E
MAX.	---	---	---	---	29,700	21,400	15,900	12,000	12,000	19,500	20,800	18,900E
MIN.	---	---	---	---	22,300	15,000	10,300	8,270	7,230	12,100	19,000	14,000E

FOR THE YEAR 1951

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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--

MAXIMUM

29,700 cfs, May 1 to 9

32,300 cfs on May 19, 1950

MAXIMUM INSTANTANEOUS

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MINIMUM

7,230 cfs on September 10, 12 and 13

3,950E cfs, April 9 to 15, 1950

MINIMUM INSTANTANEOUS

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NOTES:

B - Ice effect from November 15.

E - Estimated from December 1.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3AB-1).

WASWANIPi

AT OUTLET OF WASWANIPi LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1952

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	13,500E	7,150E	4,350E	3,010E	17,000	28,800	23,000	26,200	20,700	24,400	16,700	14,400E
2	13,100	6,980	4,250	3,000	18,000	28,600	22,300	26,400	20,500	24,200	16,700	14,400
3	12,800	6,900	4,200	3,000	19,400	28,600	21,800	27,000	20,200	24,000	16,700	14,500
4	12,500	6,750	4,120	3,000	20,900	28,800	21,300	27,600	20,000	23,800*	16,800	14,600
5	12,100	6,600	4,050	3,000	22,200	28,900	20,900	27,800	19,800	23,400	17,000	14,600
6	11,900	6,500	3,980	2,990	22,900	29,100	20,400	28,100	19,700	23,100	16,800	14,700
7	11,600	6,400	3,920	2,990	23,100	29,300	19,700	28,300	19,800	22,500	16,700	14,800
8	11,400	6,300	3,860	2,990	23,300	29,300	19,200	28,300	20,000	22,400	16,300	14,900
9	11,100	6,200	3,800	2,990	24,000	29,500	19,000	28,500	20,200	22,000	16,000	15,000
10	10,900	6,100	3,770	2,990	24,700	29,500	18,800	28,300	20,000	21,600	15,900	15,000
11	10,600	5,980	3,700	3,000	25,800	29,700	18,500	28,500	20,200	21,500	15,900	15,100
12	10,400	5,880	3,650	3,020	27,300	29,700	18,700	28,700	20,500	20,800	15,700	15,200
13	10,100	5,780	3,600	3,050	28,900	29,500	19,000	28,900	20,700	20,200	15,700	15,300
14	10,000	5,680	3,550	3,100	29,800	29,700	19,500	28,700	20,900	19,900	15,700	15,400
15	9,800	5,600	3,500	3,150	30,600	29,900	20,200	28,500	20,500	19,700	15,500	15,400
16	9,600	5,480	3,460	3,200	31,200	29,900	20,900	28,500	20,300	19,500	15,500	15,400
17	9,400	5,400	3,420	3,350	31,800	29,700	21,800	28,300	21,000	19,200	15,200	15,400
18	9,200	5,300	3,390	3,450	32,800	29,700	22,300	28,100	21,900	19,000	14,900	15,400
19	9,100	5,180	3,320	3,600	32,800	29,500	23,000	27,800	22,500	18,900	14,700	15,400
20	8,950	5,080	3,300	4,120	32,400	29,300	24,100	27,600	23,000	18,500	14,400	15,400
21	8,800	5,000	3,250	5,200	32,000	29,100	24,500	27,400	23,400	18,400	14,300	15,300
22	8,600	4,900	3,200	6,000	31,600	28,800	24,900	27,000	23,700	18,200	14,400	15,200
23	8,400	4,800	3,180	7,000	31,400	28,000	25,400	26,600	24,300	17,800	14,300B	15,100
24	8,250	4,750	3,150	8,150E	30,800	27,800	25,800	26,100	25,000	17,700	14,200	15,000
25	8,100	4,700	3,110	9,480	30,400	27,000	26,000	25,100	26,300	17,700	14,200	14,900
26	7,950	4,600	3,100	11,000B	29,800	26,300	26,200	24,400	26,900	17,500	14,200	14,800
27	7,800	4,550	3,080	12,200	29,300	25,700	26,000	23,800	26,100	17,300	14,200	14,700
28	7,650	4,450	3,050	13,500	28,900	25,400	25,800	22,900	25,600	17,200	14,300	14,600
29	7,500	4,400	3,020	14,900	28,700	24,800	25,600	22,400	25,200	17,000	14,300	14,600
30	7,400	--	3,010	16,200	28,300	24,100	25,800	21,700	24,700	17,000	14,400	14,400
31	7,300	--	3,010	--	28,100	--	26,000	21,200	--	16,800	--	14,300
MEAN	9,860E	5,630E	3,530E	5,550E	27,400	28,500	22,500	26,700	22,100	20,000	15,400	14,900E
MAX.	13,500E	7,150E	4,350E	16,200	32,800	29,900	26,200	28,900	26,900	24,400	17,000	15,400E
MIN.	7,300E	4,400E	3,010E	2,990E	17,000	24,100	18,500	21,200	19,700	16,800	14,200	14,300E
M.F.C.	.584	.333	.208	.328	1.619	1.685	1.329	1.582	1.309	1.186	.910	.884

FOR THE YEAR 1952

FOR ALL THE YEARS RECORDED (1 Year)

MEAN	16,900 cfs
MAXIMUM	32,800 cfs on May 18 and 19
MAXIMUM INSTANTANEOUS	--
MINIMUM	2,990E cfs, April 6 to 10
MINIMUM INSTANTANEOUS	--

16,900 cfs
32,800 cfs on May 18 and 19, 1952
--
2,990E cfs, April 6 to 10, 1952
--

NOTES:

* - Discharge measurement.
 B - Ice effect to April 26 and from November 23.
 E - Estimated to April 24 and from December 1.
 Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.
 Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3AB-1).

WASWANIPi

AT OUTLET OF WASWANIPi LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1953

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	14,200E	8,800E	6,280E	9,200E	33,400	32,600	14,700	10,800	7,550	15,200	11,300	10,100E
2	14,000	8,700	6,200	10,000	33,800	31,600	14,600	10,600	7,550	15,400	11,000	10,200
3	13,800	8,600	6,180	11,000	34,200	30,600	14,400	10,500	7,810	15,900	10,600	10,300
4	13,500	8,450	6,150	12,000	34,800	29,800	14,300	10,300	8,080	15,900	9,180	10,300
5	13,300	8,400	6,120	13,000	35,600	29,300	13,900	10,000	8,350	16,000	10,600	10,400
6	13,100	8,250	6,100	14,200	36,400	28,300	13,800	9,890	8,490	15,900	10,800	10,400
7	12,900	8,150	6,050	15,200B	37,200	27,300	13,600	9,600	8,760	16,000	10,500	10,400
8	12,700	8,000	6,000	16,700	37,900	26,600	13,600	9,320	8,900	16,200	10,500	10,400
9	12,500	7,900	6,000	17,500E	38,700	25,700	13,600	9,180	9,040	15,900	10,200	10,300
10	12,300	7,800	5,950	18,900	39,100	25,100	13,600	9,040	9,320	15,500	10,200	10,300
11	12,100	7,700	5,950	20,400	39,100	24,500	13,800	9,040	9,460	15,400	10,000	10,200
12	11,900	7,600	5,950	22,200	39,100	24,000	13,600	8,900	9,740	15,400	9,890	10,200
13	11,700	7,550	5,950	23,400	39,500	23,400	13,600	9,040	10,200	15,200	10,000	10,100
14	11,500	7,450	5,950	25,100	39,500	22,500	13,500	8,900	10,500	15,100	9,740	10,100
15	11,300	7,400	5,950	26,000	39,700	22,000	12,900	8,760	10,600	15,100	9,460	10,000
16	11,200	7,300	5,950	27,200	40,000	21,500	12,500	8,630	11,000	14,900	9,460B	10,000
17	11,000	7,220	5,980	27,900	40,000	20,900	12,500	8,490	11,300	14,600	9,460	9,980
18	10,900	7,150	5,990	28,900	40,200	20,200	12,400	8,220	11,500	14,300	9,460	9,950
19	10,600	7,100	6,000	29,600	40,400	19,200	12,200	8,080	11,900	13,900	9,480	9,900
20	10,400	7,000	6,000	30,200	40,400	19,000	12,200	7,950	12,200	13,600	9,520	9,800
21	10,200	6,900	6,020	30,600	40,200	18,700	12,100	7,680	12,500	13,300	9,580	9,700
22	10,100	6,800	6,050	31,200	40,000	18,400	11,900	7,410	13,000	13,200	9,600	9,600
23	10,000	6,700	6,180	31,600	39,700	18,000	11,800	7,280	13,300	12,900	9,620	9,500
24	9,900	6,650	6,500	32,000	39,100	17,500	11,800	7,020	13,600	12,700	9,710	9,450
25	9,750	6,570	6,520	32,400	37,900	17,000	11,600	7,150	14,100	12,400	9,780	9,380
26	9,700	6,500	6,820	32,600	37,200	16,700	11,500	7,150	14,300	12,200	9,850	9,300
27	9,600	6,430	7,100	32,800	36,400	16,500	11,300	7,280	14,400	11,900	9,920	9,100
28	9,500	6,390	7,300	33,000	35,800	16,000	11,200	7,410	14,700	11,900	10,000	8,910
29	9,300	--	7,700	33,000	35,400	15,500	11,000	7,280	14,900	11,800	10,000	8,800
30	9,100	--	8,000	33,200	34,800	15,100	10,900	7,410	15,200	11,800	10,100	8,700
31	8,900	--	8,400	--	33,800	--	10,900	7,410	--	11,600	--	8,600
MEAN	11,300E	7,480E	6,360E	24,000E	37,700	22,500	12,800	8,570	11,100	14,200	9,980	9,820E
MAX.	14,200E	8,800E	8,400E	33,200	40,400	32,600	14,700	10,800	15,200	16,200	11,300	10,400E
MIN.	8,900E	6,390F	5,950E	9,200E	33,400	15,100	10,900	7,020	7,550	11,600	9,180	8,600E
M.F.C.	.770	.509	.433	1.636	2.568	1.528	.868	.583	.754	.969	.679	.668

FOR THE YEAR 1953

MEAN	14,700 cfs
MAXIMUM	40,400 cfs on May 19 and 20
MAXIMUM INSTANTANEOUS	--
MINIMUM	5,950 cfs, March 10 to 16
MINIMUM INSTANTANEOUS	--

FOR ALL THE YEARS RECORDED (2 Years)

MEAN	15,800 cfs
MAXIMUM	40,400 cfs on May 19 and 20, 1953
MAXIMUM INSTANTANEOUS	--
MINIMUM	2,990E cfs, April 6 to 10, 1952
MINIMUM INSTANTANEOUS	--

NOTES:

B - Ice effect to April 7 and from November 16.
 E - Estimated to April 9 and from December 1.
 Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.
 Accuracy of records: poor.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3AB-1).

WASWANIPi

AT OUTLET OF WASWANIPi LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1954

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	8,400E	4,300E	2,850E	2,430E	19,000E	32,400	23,900	15,400	11,200	15,500	16,600	13,900E
2	8,180	4,200	2,820	2,430	21,000	32,800	23,000	15,600	10,900	16,300	16,500	13,900
3	7,980	4,100	2,790	2,430	24,000	32,000	22,400	15,300	10,900	16,300	16,500	13,800
4	7,780	4,000	2,760	2,430	27,000	31,600	21,400	15,000	10,800	16,500	16,000	13,700
5	7,600	3,950	2,740	2,430	30,000E	31,400	21,000I	14,600	10,600	16,700	15,700	13,600
6	7,420	3,860	2,720	2,440	32,800	30,800	20,700	14,600	10,500	16,800	15,300	13,500
7	7,250	3,800	2,700	2,450	35,200	30,400	20,300I	14,600	10,500	17,000	14,900	13,400
8	7,000	3,750	2,680	2,470	36,400	30,100*	20,000	14,600	10,300	17,200	14,400	13,300
9	6,900	3,690	2,660	2,480	37,700	29,900	18,900	14,600	10,200	17,300	14,200	13,200
10	6,800	3,640	2,650	2,490	38,900	29,300	18,400I	14,400I	10,200	17,500	15,000	13,000
11	6,600	3,580	2,630	2,490	39,700	28,700	17,900	14,300	9,920	17,500	14,700	12,900
12	6,450	3,520	2,610	2,500	40,600	28,500	17,700I	14,000	9,770	17,700	14,200	12,800
13	6,300	3,480	2,600	2,510	40,800	28,300	17,600	14,300	9,770	17,800	14,100	12,600
14	6,200	3,420	2,590	2,560	41,000	27,900	17,300I	14,300	9,490	18,200	14,100	12,400
15	6,050	3,380	2,570	2,600	41,000	27,400	16,900	14,300	9,350	18,500	14,100	12,200
16	5,950	3,330	2,560	2,680	40,800	27,000	16,800I	14,200I	9,210	24,500E	14,000	12,100
17	5,800	3,300	2,550	2,750	40,800	26,400	16,600	14,200	9,070	21,800E	13,900	11,900
18	5,700	3,250	2,530	2,850	40,600	26,100	16,600I	14,200	8,930	19,500	13,800B	11,800
19	5,600	3,220	2,510	3,280	40,600	25,900	16,600	13,800	8,790	19,700	13,700	11,700
20	5,450	3,190	2,500	3,780	40,400	25,100	16,300I	13,700	8,790	19,500	13,800	11,500
21	5,380	3,140	2,490	4,900	40,200	24,700	16,000*	13,500	9,070	19,200	13,800	11,400
22	5,250	3,100	2,490	6,080	40,200	24,400	16,600	13,400	9,210	18,700	13,800	11,100
23	5,120	3,060	2,480	6,920	38,900	24,500	16,600	13,200	9,630	18,400	13,900	11,000
24	5,020	3,030	2,480	9,000	38,100	24,900	16,600	12,800	9,770	18,500	13,900	10,800
25	4,950	3,000	2,480	10,000	37,700	25,500	16,400	12,600	10,900	18,400	13,900	10,500
26	4,900	2,970	2,470	11,500B	36,800	26,000	16,200I	12,500	13,000	18,400	14,000	10,300
27	4,780	2,940	2,460	13,000	36,400	25,800	16,100	12,300	14,100	18,200	14,000	10,100
28	4,650	2,890	2,450	14,000	35,200	25,500	16,100	12,000	14,300	18,000	14,000	9,900
29	4,550	--	2,440	15,500	34,800	25,100	15,800	11,800	14,600	17,700	14,000	9,780
30	4,450	--	2,440	17,000	34,400	24,900	15,600	11,700	15,100	16,700	14,000	9,580
31	4,400	--	2,430	--	33,600	--	15,600	11,600	--	17,000	--	9,400
MEAN	6,090E	3,470E	2,580E	5,350E	36,000E	27,800	18,000	13,800	10,600	18,100	14,500	12,000E
MAX.	8,400E	4,300E	2,850E	17,000E	41,000	32,800	23,900	15,600	15,100	24,500E	16,600	13,900E
MIN.	4,400E	2,890E	2,430E	2,430E	19,000E	24,400	15,600	11,600	8,790	15,500	13,700	9,400E
M.F.C.	.432	.245	.183	.379	2.550	1.970	1.276	.978	.753	1.283	1.028	.849

FOR THE YEAR 1954

FOR ALL THE YEARS RECORDED (3 Years)

MEAN 14,100 cfs

MAXIMUM 41,000 cfs on May 14 and 15

MAXIMUM INSTANTANEOUS --

MINIMUM 2,430E cfs, March 31 to April 5

MINIMUM INSTANTANEOUS --

15,200 cfs

41,000 cfs on May 14 and 15, 1954

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2,430E cfs, March 31 to April 5, 1954

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NOTES:

* - Discharge measurement.
 B - Ice effect to April 26 and from November 18.
 I - Interpolated.
 E - Estimated to May 5, on October 16 and 17 and from December 1.
 Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.
 Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3AB-1).

WASWANIP

AT OUTLET OF WASWANIP LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1955

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	9,120	6,360	5,270	4,520	23,400	27,900	14,300	10,400	7,000	12,400	14,700	15,900
2	9,000	6,290	5,250	4,500	24,900	27,500	14,200	10,300	7,130	12,400	14,500	15,800
3	8,870	6,270	5,220	4,460	25,600	27,300	13,700	10,600	7,130	12,400	14,900	15,600
4	8,650	6,240	5,230	4,430	26,700	26,900	13,600	10,400	7,000	12,500	15,200	15,500
5	8,500	6,170	5,180	4,420	27,900	26,500	12,900	9,970*	7,130	12,700	17,000	15,400
6	8,380	6,150	5,150	4,410	28,800	26,400	12,600	9,720	7,130	13,000	18,000	15,200
7	8,250	6,120	5,110	4,400	29,400	26,000	12,300	9,570	7,260	13,300	18,200	15,000
8	8,120	6,050	5,100*	4,390	30,400	25,400	12,200	9,430	7,130	13,400	18,600	14,900
9	8,000	6,000	5,050	4,390	31,000	24,500	11,900	9,150	7,000	13,800	18,400	14,700
10	7,850	5,960	5,020	4,380	32,900	23,800	11,600	8,870	7,130	14,100	18,600	14,500
11	7,720	5,910	5,000	4,380	33,300	23,400	11,300	8,740	7,260	14,500	18,600	14,100
12	7,630	5,890	5,000	4,380	32,900	22,700	11,100	8,600	7,260	14,900	18,200	13,900
13	7,500	5,840	4,980	4,390	32,700	22,300	11,000	8,460	7,390	14,900	18,400	13,700
14	7,400	5,820	4,970	4,390	32,900	22,000	10,800	8,460	7,650	15,000	18,400	13,400
15	7,350	5,720	4,950	4,460	32,700	21,500	10,800	8,190	7,650	14,700	18,200	13,100
16	7,250	5,700	4,920	4,730	32,500	20,700	10,900	8,330	7,650	15,000	18,200	12,900
17	7,230	5,680	4,900	5,300	32,100	20,000	11,100	7,790	7,920	15,000	18,400	12,600
18	7,130	5,650	4,880	6,000	31,800	19,500	11,200	7,650	8,330	15,200	18,200	12,300
19	7,060	5,580	4,840	7,000	31,200	18,800	11,500	7,790	8,740	15,300	17,600B	12,000
20	7,030	5,560	4,810	8,000	31,000	18,300	11,800	7,920	9,150	13,800	17,200	11,800
21	6,990	5,530	4,800	8,900	30,200	18,000	11,800	7,790	10,100	13,800	17,100	11,500
22	6,940	5,480	4,780	9,900	29,600	17,800	11,700	7,650	10,700	14,200	16,900	11,300
23	6,890	5,460	4,750	11,100	29,600	17,100	11,500	7,520	10,700	13,400	16,800	11,000
24	6,870*	5,410	4,710	12,800B	29,800	16,600	11,400	7,390	10,900	13,300	16,700	10,700
25	6,750	5,360	4,700	14,000	29,600	16,000	11,200	7,390	11,000	13,100	16,500	10,400
26	6,650	5,340	4,670	16,200	29,400	15,700	10,900	6,870	11,000	14,100	16,400	10,300
27	6,580	5,340	4,650	18,000	29,200	15,300	10,900	7,000	11,200	14,700	16,300	10,000
28	6,530	5,320	4,620	19,400	29,000	15,200	10,800	6,870	11,300	14,700	16,200	9,900
29	6,480	---	4,600	20,900	29,000	15,000	10,800	7,000	11,300	14,500	16,100	9,700
30	6,410	---	4,580	22,000	28,600	14,700	10,600	7,130	11,600	14,200	16,000	9,500
31	6,390	---	4,550	---	28,300	---	10,600	7,000	---	14,100	---	9,350
MEAN	7,470	5,790	4,910	8,350	29,900	21,100	11,700	8,390	8,660	13,900	17,200	12,800
MAX.	9,120	6,360	5,270	22,000	33,300	27,900	14,300	10,600	11,600	15,300	18,600	15,900
MIN.	6,390	5,320	4,550	4,380	23,400	14,700	10,600	6,870	7,000	12,400	14,500	9,350
M.F.C.	.595	.461	.391	.665	2.380	1.680	.932	.668	.690	1.111	1.366	1.017

FOR THE YEAR 1955

FOR ALL THE YEARS RECORDED (4 Years)

MEAN

12,600 cfs

14,600 cfs

MAXIMUM

33,300 cfs on May 11

41,000 cfs on May 14 and 15, 1954

MAXIMUM INSTANTANEOUS

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MINIMUM

4,380 cfs, April 10 to 13

2,430E cfs, March 31 to April 5, 1954

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to April 24 and from November 19.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers No. 115 and 119 (Station No. 3AB-1).

WASWANIPI

AT OUTLET OF WASWANIPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1956

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	9,050	5,820E	4,800E	4,260	5,920	45,000	32,000	19,100*	20,600	20,900	19,800	12,100
2	8,900	5,800	4,790	4,260	6,200	46,200	30,700	19,300	21,000	21,500	19,300	12,000
3	8,780	5,750	4,750	4,260	6,500	46,900	30,000	19,300	21,400	22,100	18,900	11,900
4	8,630	5,700	4,710	4,260	6,800	47,400	29,500	19,300	21,800	22,500	18,700	11,800
5	8,450	5,650	4,700	4,270	7,200	48,700	29,000	19,300	22,100	23,600	18,300	11,700
6	8,300	5,620	4,680	4,270	7,600	49,800	28,400	18,800	22,500	25,000	17,900	11,600
7	8,200	5,600	4,650	4,300	8,100	50,200	27,600	18,700	22,600	26,200	17,500	11,500
8	8,100	5,580	4,630	4,300	8,600	50,600	26,800	18,600	22,700	27,700	17,100	11,400
9	7,900	5,520	4,610	4,300	9,200	50,400	26,300	18,300	22,700	29,200	16,700	11,300
10	7,750	5,480	4,600	4,300	9,900	50,100	25,400	17,900	22,700	29,500	16,200	11,200
11	7,650	5,420	4,590	4,320	10,800	49,400	24,900	18,100	22,700	29,500	15,800	11,000
12	7,500	5,400	4,580	4,340	11,900	48,600	24,700	17,900	22,800	29,400	15,500	10,900
13	7,400	5,350	4,530	4,350	12,800B	48,100	24,400	17,800	22,800	29,300	15,500	10,800
14	7,250	5,300	4,500	4,380	14,500	47,200	23,800	16,600	22,800	29,100	15,300	10,600
15	7,150	5,280	4,460E	4,390	16,800	46,400	22,300	16,600	22,800	28,800	14,800	10,500
16	7,000	5,250	4,440	4,400	19,100	45,800	22,200	16,600	22,800	28,400	14,300	10,300
17	6,850*	5,200	4,410	4,410	22,200	44,700	22,000	16,500	22,900	28,000	14,100	10,100
18	6,750	5,180	4,410	4,450	24,900	43,700	21,800	16,400	22,900	26,800	13,700B	10,000
19	6,650	5,120	4,400	4,500	26,800	42,700	21,500	16,400	22,900	26,200	13,500	9,800
20	6,600	5,050	4,400	4,560	29,100	41,600	21,100	16,300	23,000	25,700	13,300	9,760
21	6,500	5,020	4,390	4,600	30,700	40,000	20,600	16,300	21,600	25,400	13,100	9,600
22	6,400	5,000	4,380*	4,680	31,700	39,500	20,300	15,900	21,900	25,100	13,000	9,450
23	6,380	5,000	4,330	4,790	33,700	38,400	19,900	15,500	21,500	24,600	12,900	9,300
24	6,300	4,990	4,320	4,870	35,100	37,400	19,700	15,800	21,200	24,200	12,800	9,150
25	6,200E	4,950	4,310	4,970	36,000	36,200	19,500	15,800	20,800	23,400	12,700	9,050
26	6,180	4,910	4,300	5,080	37,200	35,400	19,400	16,400	20,600	23,400	12,600	8,900
27	6,080	4,900	4,290	5,200	38,200	35,200	18,800	16,900	20,700	22,400	12,500	8,750
28	6,000	4,850	4,280	5,350	39,400	33,900	18,600	18,100	20,500	21,800	12,400	8,550
29	5,980	4,810	4,270	5,500	41,100	33,300	18,800	19,100	20,500	21,300	12,300	8,450
30	5,950	--	4,270	5,700	42,600	32,500	19,000	19,800	20,600	20,900	12,200	8,300
31	5,900	--	4,260	--	43,700	--	18,700	20,200	--	20,600	--	8,200
MEAN	7,180E	5,290E	4,490E	4,590	21,800	43,500	23,500	17,700	21,900	25,200	15,100	10,300
MAX.	9,050	5,820E	4,800E	5,700	43,700	50,600	32,000	20,200	23,000	29,500	19,800	12,100
MIN.	5,900E	4,810E	4,260	4,260	5,920	32,500	18,600	15,500	20,500	20,600	12,200	8,200
M.F.C.	.429	.316	.268	.274	1.301	2.602	1.403	1.056	1.312	1.509	.902	.613

FOR THE YEAR 1956

FOR ALL THE YEARS RECORDED (5 Years)

MEAN

16,700 cfs

15,000 cfs

MAXIMUM

50,600 cfs on June 8

50,600 cfs on June 8, 1956

MAXIMUM INSTANTANEOUS

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MINIMUM

4,260 cfs, March 31 to April 4

2,430E cfs, March 31 to April 5, 1954

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to May 13 and from November 18.

E - Estimated, January 25 to March 15.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 119 (Station No. 3AB-1).

WASWANIPU

AT OUTLET OF WASWANIPU LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1957

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	8,250	6,130E	5,060E	4,300	24,900	25,400	28,400	22,800	17,300	19,200	18,000	19,900
2	8,100	6,080	5,000	4,280	27,000	25,400	28,800	22,700	16,400	18,400	17,900	19,900
3	8,050	6,020	4,990	4,260	28,700	25,300*	29,900	23,000	15,800	19,100	17,700	19,900
4	7,950*	6,000	4,970	4,250	29,900	24,900	30,000	22,900	15,300	19,500	17,800	19,900
5	7,880	5,980	4,920	4,230	30,600	24,900*	30,000	22,700	15,200	19,500	17,500	19,800
6	7,800	5,930	4,880	4,220	31,200	24,700	30,300	22,400	15,200	19,500	17,500	19,700
7	7,730	5,900	4,830	4,210	31,800	24,400	30,500	22,300	15,100	19,400	17,500	19,600
8	7,600	5,840	4,820	4,200	32,500	23,900	30,700	22,100	15,100	19,200	17,500	19,500
9	7,530	5,800	4,800	4,200	32,900	23,300	30,700	21,900	15,600	19,000	18,800	19,400
10	7,480E	5,780	4,790	4,200	33,300	22,900	30,700	21,500	15,700	18,800	18,500	19,400
11	7,400	5,730	4,770	4,200	33,300	22,600	30,900	21,400	15,700	18,700	18,100	19,400
12	7,370	5,700	4,720	4,200	33,300	23,400	31,000	21,300	15,800	18,400	18,600	19,300
13	7,250	5,660	4,680	4,200	33,100	25,800	31,200	21,200	15,800	18,100	18,400	19,200
14	7,200	5,610	4,650	4,200	32,800	26,900	31,300	21,000	16,000	18,100	18,400	19,100
15	7,150	5,590	4,610E	4,210	32,200	27,900	31,200	20,700	16,300	17,800	18,500B	19,000
16	7,020	5,550	4,600	4,210	31,600	28,300	31,000	20,400	16,400	17,500	18,800	18,800
17	6,980	5,510	4,560	4,220	31,200	28,000	30,400	19,600	16,400	17,400	18,900	18,700
18	6,900	5,490	4,550	4,230	30,200	28,000	29,900	19,300	16,800	17,200	19,000	18,500
19	6,800	5,450	4,520	4,280	29,400	28,100	28,800	19,300	16,900	17,100	19,100	18,400
20	6,780	5,400	4,500*	4,380	28,600	28,500	28,100	19,300	16,800	17,000	19,200	18,300
21	6,720	5,390	4,450	4,600	28,300	28,800	27,800	18,800*	17,200	17,900	19,300	18,100
22	6,650	5,350	4,420	5,200	27,600	28,800	27,500	18,900	17,500	18,400	19,400	18,000
23	6,600	5,300	4,400	6,300	27,200	29,000	27,300	19,000	17,700	18,300	19,500	17,900
24	6,550	5,270	4,400	7,600	26,600	29,400	26,800	18,500	18,100	17,900	19,600	17,700
25	6,500	5,230	4,400	9,460B	26,200	29,900	26,400	18,300	17,900	17,700	19,700	17,600
26	6,400	5,200	4,390	11,200	25,800	29,400	25,900	18,300	17,900	18,600	19,800	17,500
27	6,380	5,180	4,390	13,500	25,400	29,000	25,400	16,700	18,800	18,300	19,900	17,200
28	6,320	5,160	4,380	16,800	25,000	28,500	24,700	17,500	19,100	18,300	19,900	17,000
29	6,280	--	4,350	19,100	25,200	28,400	24,400	17,600	19,100	18,800	19,900	16,900
30	6,220	--	4,320	22,600	25,200	28,300	23,800	17,100	19,100	18,300	19,900	16,600
31	6,200	--	4,310	--	25,300	--	23,400	16,800	--	17,900	--	16,400
MEAN	7,100E	5,620E	4,630E	6,700	29,200	26,700	28,600	20,200	16,700	18,400	18,800	18,600
MAX.	8,250	6,130E	5,060E	22,600	33,300	29,900	31,300	23,000	19,100	19,500	19,900	19,900
MIN.	6,200E	5,160E	4,310	4,200	24,900	22,600	23,400	16,700	15,100	17,000	17,500	16,400
M.F.C.	.421	.333	.274	.397	1.734	1.585	1.697	1.196	.992	1.089	1.112	1.103

FOR THE YEAR 1957

FOR ALL THE YEARS RECORDED (6 Years)

MEAN

16,900 cfs

15,300 cfs

MAXIMUM

33,300 cfs, May 10 to 12

50,600 cfs on June 8, 1956

MAXIMUM INSTANTANEOUS

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MINIMUM

4,200 cfs, April 8 to 14

2,430E cfs, March 31 to April 5, 1954

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to April 25 and from November 15.

E - Estimated, January 10 to March 15.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 119 and 126 (Station No. 3AB-1).

WASWANAPI

AT OUTLET OF WASWANAPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16,100	10,300E	7,650E	5,600	17,300	21,100	24,800	16,400	15,500	19,100	21,600	13,600
2	15,900	10,200	7,600	5,550	17,800	21,300	25,200	16,400	17,400	19,100	21,300	13,600
3	15,600	10,000	7,500	5,500	18,500	22,800	25,400	16,300	18,600	19,100	20,500	13,500
4	15,300	10,000	7,400	5,450	18,600	23,000	25,500	16,300	19,100	19,200	20,300	13,400
5	15,000	9,900	7,350	5,400	18,600	22,900	25,600	16,300	19,400	19,100	20,500	13,200
6	14,900	9,700	7,250	5,370	18,700	23,000	25,200	16,300	19,800	19,200	20,700	13,000
7	14,700	9,600	7,200	5,320	19,200	23,600	24,800	16,300	19,800	18,900	20,300	12,800
8	14,400	9,550	7,100	5,300	18,800	24,100	24,500	15,500	19,300	19,000	18,900	12,600
9	14,200	9,450	7,050	5,280	18,500	24,100	24,100	15,100	19,700	19,100	18,300	12,400
10	14,000	9,400	7,000	5,250	18,600	24,000	23,700	15,000	19,800	19,400	17,900	12,100
11	13,800	9,300	6,950	5,200	18,700	23,900	23,200	14,900	20,700	19,300	17,700	11,900
12	13,500	9,200	6,900	5,200	18,800	23,600	22,800	15,100	21,800	20,200	17,500	11,800
13	13,200	9,050	6,800	5,200	18,700	23,700	22,600	14,600	21,800	21,600	16,900	11,600
14	13,000	9,000	6,750	5,200	19,200	23,700	22,000	14,500	22,200	22,200	16,800	11,400
15	12,700	8,850	6,700E	5,250	19,300	23,600	21,500	13,700	22,000	21,800	15,700B	11,100
16	12,600*	8,800	6,600	5,500	18,900	22,900	20,700*	13,900	21,700	21,400	15,500	11,000
17	12,400	8,700	6,550	6,380	18,900	22,900	20,900	13,800	22,100	22,500	15,000	10,800
18	12,300	8,600	6,500	7,200	19,000	23,300	20,600	13,800	22,100	22,700	14,600	10,600
19	12,100	8,500	6,400	7,800	19,000	23,700	20,100	13,900	22,200	22,800	14,400	10,400
20	11,900	8,400	6,380	8,050	19,100	23,700	19,900	14,000	22,000	22,800	14,200	10,100
21	11,800	8,350	6,320	9,650	18,900	23,100	19,600	13,900	21,800	23,600	14,000	10,000
22	11,500	8,250	6,250*	10,700	19,300	23,200	19,100	13,900	21,400	23,400	13,800	9,800
23	11,300	8,200	6,200	11,600	18,800	23,300	18,700	13,900	21,100	23,800	13,700	9,600
24	11,200	8,100	6,100	12,800	19,600	23,200	18,400	13,900	20,800	23,600	13,700	9,500
25	11,000E	8,000	6,000	14,000B	19,700	22,900	18,100	13,900	20,300	23,400	13,700	9,300
26	10,900	7,950	5,950	14,000	19,500	22,500	17,700	13,800	19,800	22,900	13,700	9,000
27	10,700	7,900	5,900	15,200	19,700	22,600	17,200	13,900	20,000	22,700	13,800	8,900
28	10,600	7,800	5,800	15,800	20,200	22,500	16,900	14,100	19,800	22,300	13,800	8,800
29	10,500	--	5,750	16,400	20,100	23,000	16,600	13,800	19,400	22,200	13,800	8,650
30	10,400	--	5,700	16,700	19,700	22,700	16,300	14,400	19,200	22,500	13,700	8,500
31	10,300	--	5,650	--	21,200	--	16,400	14,900	--	21,800	--	8,350
MEAN	12,800E	8,970E	6,620E	8,400	19,100	23,100	21,200	14,700	20,400	21,300	16,500	11,000
MAX.	16,100	10,300E	7,650E	16,700	21,200	24,100	25,600	16,400	22,200	23,800	21,600	13,600
MIN.	10,300E	7,800F	5,650	5,200	17,300	21,100	16,300	13,700	15,500	18,900	13,700	8,350
M.F.C.	.834	.582	.430	.545	1.239	1.503	1.380	.957	1.323	1.385	1.075	.715

FOR THE YEAR 1958

FOR ALL THE YEARS RECORDED (7 Years)

MEAN	15,400 cfs	15,300 cfs
MAXIMUM	25,600 cfs on July 5	50,600 cfs on June 8, 1956
MAXIMUM INSTANTANEOUS	--	--
MINIMUM	5,200 cfs, April 11 to 14	2,430E cfs, March 31 to April 5, 1954
MINIMUM INSTANTANEOUS	--	--

NOTES:

* - Discharge measurement.

B - Ice effect to April 25 and from November 15.

E - Estimated, January 25 to March 15.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 126 and 129 (Station No. 3AB-1).

WASWANUPI

AT OUTLET OF WASWANUPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	8,200	6,000E	4,800E	3,920	4,620	34,300	28,800	14,000	14,200	17,400	26,900	18,200
2	8,050	5,980	4,770	3,900	5,400	34,200	27,800	13,800	15,000	17,500	26,800	17,900
3	8,000	5,900	4,730	3,890	6,400	34,100	26,500	13,800	15,600	17,400	27,500	17,700
4	7,950	5,830	4,700	3,870	7,800	33,700	25,800	13,600	16,400	17,700	27,100	17,600
5	7,850	5,800	4,650	3,850	9,500	33,100	25,400	13,800	16,300	18,000	26,700	17,400
6	7,750	5,780	4,600	3,840	12,700B	32,800	24,800	13,500	16,300	18,200	26,800	17,200
7	7,650	5,750	4,590	3,830	15,000	32,600	24,600	13,100	16,100	18,700	26,400	17,000
8	7,500	5,680	4,570	3,800	19,200	32,700	24,000	13,200	16,100	19,100	26,500	16,800
9	7,450	5,600	4,530E	3,790	22,200	32,500	23,300	13,600	16,500	19,400	25,900	16,700
10	7,400	5,580	4,500	3,790	26,000	32,400	21,400	13,700	16,900	19,500	25,600	16,500
11	7,300	5,580	4,450*	3,790	28,400	32,200	21,600	13,800	16,800	19,500	25,400	16,400
12	7,200	5,520	4,430	3,780	31,700	32,300	21,400	13,900	16,100	19,400	25,000	16,300
13	7,180	5,450	4,410	3,780	35,000	32,500	20,800	13,800	16,000	19,600	24,400	16,100
14	7,050	5,410	4,400	3,760	38,200	32,400	20,300	14,100	16,200	19,500	24,200	15,900
15	6,960	5,390	4,390	3,750	40,000	32,700	19,700	13,800	16,300	20,000	23,900	15,800
16	6,850	5,360	4,370	3,750	41,500	32,800	19,100	13,400	16,200	20,200	23,500	15,700
17	6,800	5,320	4,340	3,750	42,300	32,900	18,700	13,600	16,300	19,600	23,100	15,600
18	6,750	5,250	4,300	3,750	42,600	33,100	17,800	13,500	16,100	19,900	22,300	15,300
19	6,650	5,210	4,250	3,750	42,600	33,000*	17,000	13,400	16,100	19,400	21,900	15,000
20	6,600	5,200	4,220	3,750	42,200	33,000	16,200	13,300	15,900	19,500	21,600	14,900
21	6,590*	5,180	4,200	3,750	41,600	32,800	15,400	13,500	15,500	19,700	21,400	14,700
22	6,500	5,130	4,190	3,750	41,200	32,700	14,600	14,300	15,200	19,600	21,000	14,300
23	6,450	5,080	4,170	3,750	41,100	32,500	14,200	14,100	15,500	19,400	20,700	14,000
24	6,400	5,030	4,130	3,750	40,800	32,600	13,700	14,200	16,100	20,900	20,200	13,700
25	6,380	5,000	4,100	3,750	40,000	32,600	14,100	14,000	16,400	21,300	19,900	13,500
26	6,300	4,980	4,080	3,750	39,400	32,100	14,000*	13,700	16,100	22,000	19,600B	13,200
27	6,200E	4,900	4,050	3,760	38,800	32,000	13,800	13,500	16,300	23,000	19,100	13,000
28	6,180	4,850	4,000	3,800	37,600	31,400	13,800	13,900	16,600	24,500	18,900	12,800
29	6,100	--	3,990	3,900	37,000	30,800	14,000	14,000	16,700	25,600	18,700	12,500
30	6,050	--	3,980	4,200	35,600	29,800	13,800	14,100	17,200*	27,000	18,400	12,200
31	6,010	--	3,950	--	35,500	--	13,900	14,300	--	27,100	--	12,000
MEAN	6,980E	5,420E	4,350E	3,810	30,400	32,600	19,400	13,800	16,100	20,300	23,300	15,400
MAX.	8,200	6,000E	4,800E	4,200	42,600	34,300	28,800	14,300	17,200*	27,100	27,500	18,200
MIN.	6,010E	4,850F	3,950	3,750	4,620	29,800	13,700	13,100	14,200	17,400	18,400	12,000
M.F.C.	.435	.338	.271	.237	1.895	2.034	1.207	.857	1.004	1.266	1.454	.957

FOR THE YEAR 1959

FOR ALL THE YEARS RECORDED (8 Years)

MEAN 16,000 cfs

MAXIMUM 42,600 cfs on May 18 and 19

MAXIMUM INSTANTANEOUS --

MINIMUM 3,750 cfs, April 15 to 26

MINIMUM INSTANTANEOUS --

15,400 cfs

50,600 cfs on June 8 1956

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2,430E cfs, March 31 to April 5, 1954

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NOTES:

* - Discharge measurement.
 B - Ice effect to May 6 and from November 26.
 E - Estimated, January 27 to March 9.
 Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs
 Accuracy of records: fair.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 129 and 133 (Station No. 3AB-1).

WASWANAPI

AT OUTLET OF WASWANAPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11,600	7,700	6,350	5,800	9,300	54,200	29,200E	26,500E	17,500	15,600	13,500	14,000E
2	11,400	7,600	6,300	5,800	10,500	54,200I	28,700	26,800	18,900	15,500	13,500	14,000
3	11,200	7,500	6,300	5,800	12,200	53,900	28,100	27,400	18,600	15,300	13,500	14,100
4	11,000	7,450	6,250	5,820	14,000	53,700	27,700	28,000	18,300	15,200	13,600	14,100
5	10,900	7,380	6,220	5,850	16,800B	53,500	27,000	28,300	18,300	15,200	13,600	14,100
6	10,700	7,320	6,200	5,860	19,200	51,800	26,200	28,900	17,800	15,100	13,600	14,100
7	10,500	7,300	6,180	5,880	20,900	49,100	25,200	29,200	17,800	15,000	13,600	14,100
8	10,400	7,190	6,130	5,920	24,700	47,900	24,700	29,700	17,700	14,800	13,700	14,000
9	10,300	7,100	6,100	5,950	26,700	46,000	23,800	29,900	17,600	14,600	13,700	14,000
10	10,100	7,050	6,020	5,980	30,000E	45,600*	23,000	30,000	17,600	14,300	13,700	14,000
11	10,000	7,020	6,010	5,990	35,000	44,800	22,300	30,100	17,500	14,100	13,700	14,000
12	9,900	6,970	6,000	6,000	42,000	44,100	21,800	30,200	17,500	14,000	13,700	13,900
13	9,800	6,900	5,990	6,020	46,000	43,900	21,100	30,200	17,400	13,800	13,800	13,800
14	9,650	6,840	5,980	6,060	50,000	43,700	20,500	30,100	17,300	13,800	13,700	13,700
15	9,500	6,800	5,970	6,110	52,500	43,500	20,000	30,000E	17,200	13,800	13,700B	13,600
16	9,400	6,730	5,960	6,180	54,300	43,100	19,600E	29,800	17,100	13,800	13,700	13,500
17	9,200	6,700	5,950	6,200	55,000E	42,700	19,000*	29,800*	17,000	13,800	13,700	13,400
18	9,100	6,650	5,950	6,230	55,200	41,400	18,400E	28,700	17,000	13,700	13,700	13,300
19	9,050	6,610	5,940*	6,320	55,600	40,400	18,300	28,100	16,900	13,700	13,700	13,200
20	9,000	6,590	5,900	6,400	55,200	39,000	18,800	27,500	16,800	13,700	13,700E	13,000
21	8,900	6,500	5,880	6,500	54,600	37,300	19,300	26,800	16,700	13,700	13,700	12,900
22	8,800	6,440	5,870	6,600	54,200	36,800	20,000	25,800	16,500	13,700	13,700	12,700
23	8,600	6,400	5,850	6,700	53,800	34,900	20,800	26,100	16,500	13,700	13,800	12,500
24	8,450	6,400*	5,830	6,800	55,200	34,100	21,800	25,600	16,500	13,700	13,800	12,300
25	8,400*	6,420	5,810	6,930	54,400	33,700	22,800	24,900	16,300	13,600	13,900	12,100
26	8,200	6,420	5,800	7,030	55,700	33,500	23,900	24,200	16,200	13,600	13,900	12,000
27	8,100	6,400	5,800	7,250	55,200	33,200	24,900	21,600	16,200	13,600	14,000	11,800
28	8,000	6,400	5,800	7,500	55,200	32,700	25,100	19,900	16,100	13,600	14,000	11,500
29	7,900	6,370	5,800	7,800	55,100	29,900	26,300	19,500	15,900	13,500	14,000	11,200
30	7,800	--	5,800	8,250	54,500	29,500	26,700	18,700	15,800	13,500	14,000	11,000
31	7,750	--	5,800	--	54,200	--	26,600	17,900	--	13,500	--	10,900E
MEAN	9,470	6,870	5,990	6,380	41,500E	42,400	23,300E	26,800E	17,200	14,100	13,700E	13,100E
MAX.	11,600	7,700	6,350	8,250	55,700	54,200	29,200E	30,200E	18,900	15,600	14,000E	14,100E
MIN.	7,750	6,370	5,800	5,800	9,300	29,500	18,300E	17,900	15,800	13,500	13,500	10,900E
M.F.C.	.513	.372	.324	.346	2.249	2.298	1.261	1.451	.929	.766	.744	.711

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (9 Years)

MEAN 18,400 cfs

MAXIMUM 55,700 cfs on May 26

MAXIMUM INSTANTANEOUS --

MINIMUM 5,800 cfs, March 26 to April 3

MINIMUM INSTANTANEOUS --

15,700 cfs

55,700 cfs on May 26, 1960

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2,430E cfs, March 31 to April 5, 1954

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NOTES:

* - Discharge measurement.

B - Ice effect to May 5 and from November 15.

I - Interpolated.

E - Estimated May 10 to 17, July 1 to 16, July 18 to August 15 and from November 20.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3AB-1).

WASWANIPI

AT OUTLET OF WASWANIPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	10,800	6,800	5,200	4,500	15,000	33,400	16,400	8,500	8,130	21,300	15,000	14,500
2	10,500	6,700	5,180	4,490	16,300	32,600	15,900	8,370	8,290	21,800	14,900	14,500
3	10,200	6,650	5,120	4,480	18,000	31,900	15,500	8,240	8,400	22,300	15,000	14,400
4	10,000	6,600	5,050	4,460	19,000	31,400	15,300	8,100	8,490	22,500	15,300	14,300
5	9,900	6,530	5,020	4,450	20,900B	30,300	14,400	8,130	8,570	22,600	15,700	14,300
6	9,700	6,400	5,000	4,430	21,300	29,600	14,300	8,160	8,680*	22,700	15,800	14,300
7	9,530	6,350	4,990	4,420	22,200	29,300	14,100	8,210	8,680	22,600	16,300	14,300
8	9,400	6,250	4,950	4,420	22,700	28,300	13,500	8,200I	8,680	22,400	16,100	14,400
9	9,220	6,180	4,930	4,420	23,600	26,900	13,200	8,000I	8,820	22,000	15,900	14,400
10	9,100	6,080	4,900	4,420	24,300	26,700	13,000	7,700I	8,940	21,600	15,900	14,400
11	8,980	6,030	4,900	4,420	25,100	27,100	12,800	7,550I	8,990	21,300	16,400	14,400
12	8,820	5,950	4,850	4,430	25,400	26,500*	12,400	7,320I	9,100	21,000	16,000	14,400
13	8,720	5,920	4,800	4,460	26,000	25,500	12,200	7,100I	9,300	20,200	16,000	14,400
14	8,600	5,900	4,800	4,500	27,900	25,300	11,900	7,000I	9,610	19,300	15,900	14,400
15	8,450	5,820	4,780	4,550	28,900	24,200	11,700	6,800I	9,940	19,200	15,900B	14,400
16	8,380*	5,800	4,700	4,610	29,900	23,400	11,400	6,710	11,300	19,100	15,800	14,400
17	8,250	5,750	4,700	4,700	32,200	22,700	11,200	6,920	13,100	19,300	15,800	14,300
18	8,100	5,700	4,690	4,850	33,600	21,800	11,000	7,000	13,600	18,800	15,800	14,200
19	8,000	5,650	4,650	5,100	34,900	21,400	10,900	7,130	14,400	18,300	15,800	14,100
20	7,920	5,600	4,650	5,500	35,900	20,900	10,700	7,020	14,800	18,000	15,700	14,000
21	7,800	5,590	4,630*	6,000	36,500	20,700	10,600	6,970	15,000	17,800	15,600	14,000
22	7,700	5,550	4,620	6,600	36,800I	20,300	10,400	6,970	15,400	17,500	15,500	13,900
23	7,600	5,500*	4,610	7,300	37,100	19,800	10,200	6,890	15,700	17,300	15,300	13,800
24	7,500	5,450	4,600	8,200	37,100	19,700	9,970	6,840	15,800	16,800	15,200	13,700
25	7,400	5,380	4,600	9,100	37,100	19,500	9,580*	6,870	15,800	16,200	15,100	13,500
26	7,330	5,350	4,590	10,000	37,000	18,800	9,410	7,020	16,900	16,000I	15,000	13,300
27	7,220	5,300	4,580	11,000	36,700	18,000	9,220	7,180	18,100	15,600I	14,900	13,000
28	7,150	5,270	4,550	12,000	35,900	17,400	9,100	7,380	19,200	15,100I	14,800	12,900
29	7,000	--	4,520	13,000	35,000	16,900	8,940	7,510	19,900	15,000I	14,700	12,700
30	6,950	--	4,510	14,000	34,100	16,500	8,850	7,670	21,000	14,800	14,600	12,500
31	6,850	--	4,500	--	33,800	--	8,630	7,860	--	15,000	--	12,200
MEAN	8,490	5,930	4,780	6,290	29,000	24,200	11,800	7,460	12,400	19,100	15,500	13,900
MAX.	10,800	6,800	5,200	14,000	37,100	33,400	16,400	8,500	21,000	22,700	16,400	14,500
MIN.	6,850	5,270	4,500	4,420	15,000	16,500	8,630	6,710	8,130	14,800	14,600	12,200
M.F.C.	.637	.445	.359	.473	2.183	1.821	.889	.560	.933	1.439	1.167	1.048

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (10 Years)

MEAN

13,300 cfs

15,500 cfs

MAXIMUM

37,100 cfs, May 23 to 25

55,700 cfs on May 26, 1960

MAXIMUM INSTANTANEOUS

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MINIMUM

4,420 cfs, April 7 to 11

2,430E cfs, March 31 to April 5, 1954

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to May 5 and from November 15.

I - Interpolated.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3AB-1).

WASWANAPI

AT OUTLET OF WASWANAPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	12,100	7,720	5,400	3,750	9,360	43,800E	22,400	13,100	13,300E	15,700	13,700	8,200E
2	11,900	7,600	5,300	3,720	10,400	45,900E	21,800	13,200	13,400	15,600	13,500	8,050
3	11,700	7,550	5,250	3,700	12,200	47,200	21,000	13,300	13,500E	15,500	13,700	8,000
4	11,500	7,400	5,180	3,690	15,200B	47,500	20,000	13,400	13,200	15,600	13,700	7,850
5	11,300	7,330	5,100	3,650	16,100	47,100	19,200	13,800	12,400	15,500	13,200	7,820
6	11,100	7,250	5,000	3,620	19,000	46,200	18,700	14,300	12,300	15,400	13,100	7,820
7	10,900	7,180	4,970	3,600	21,000	45,800	18,100	14,700*	12,300	15,000	12,800	7,800
8	10,800	7,040	4,910	3,570	24,200	44,000	17,800	15,100	12,200	14,900	12,600	7,800
9	10,600	7,000	4,880	3,540	27,100	42,700	17,500	15,500	12,200	14,700	12,400	7,800
10	10,500	6,900	4,800	3,520	29,300	41,400	17,100	16,300	12,300	14,400	12,200	7,750
11	10,400	6,800	4,750	3,510	32,200	40,600	16,800	16,300	12,300	14,300	12,000	7,700
12	10,200	6,720	4,700	3,500	33,700	39,700	16,800	16,400	12,300	13,900	11,800	7,650
13	10,000	6,650	4,630	3,490	34,800	38,900	16,600	16,400	12,300	13,800	11,800	7,600
14	9,900	6,560	4,600	3,460	36,000	38,100	16,400	16,500	12,300	14,600	11,500	7,560
15	9,700	6,450	4,520	3,470	36,800*	37,500	16,300	16,600	12,500	15,400	11,500	7,500
16	9,600*	6,400	4,480	3,460	37,700	36,600	16,200	16,700	13,000	15,300	11,300	7,450
17	9,500	6,350	4,420	3,450	39,600	35,600	16,300	16,700	13,500	15,400	11,000B	7,430
18	9,380	6,250	4,380	3,440	41,400	33,400I	16,200	16,600	14,000	15,500	10,900	7,410
19	9,200	6,180	4,300	3,440	42,400	31,400	16,100	16,600	14,400	15,600	10,700	7,400
20	9,050	6,100*	4,260	3,430	43,400	31,000	16,000	16,500	14,700	15,400	10,500	7,390
21	8,950	6,000	4,220	3,480	44,200	30,400	15,800	16,300	15,100	15,400	10,200	7,350
22	8,800	5,950	4,200	3,450	44,400	29,500	15,700	16,000	15,300	15,400	10,000	7,300
23	8,680	5,850	4,130	3,700	44,400	28,100	15,500	15,700	15,400	15,000	9,800	7,200
24	8,600	5,780	4,080	3,950	44,000	27,500	15,800	15,500	15,600	15,100	9,520	7,120
25	8,450	5,700	4,000	4,180	43,900	26,400	14,800E	15,300	15,200	15,000	9,300	7,020
26	8,350	5,620	3,980	4,450	43,800	25,500	14,200	15,200	15,600	15,100	9,130	7,000
27	8,250	5,580	3,950	4,800	43,500	25,000	13,800	14,900	15,500	15,000	8,900	6,900
28	8,130	5,500	3,900*	5,300	43,200	24,300	13,400E	14,700	15,500	14,700	8,660	6,850
29	8,000	--	3,850	6,000	43,000	23,500	13,100	14,400	15,800	14,600	8,480	6,800
30	7,950	--	3,820	6,800	42,800	22,900	13,100	14,200	15,400	14,800	8,300	6,700
31	7,800	--	3,790	--	42,500E	--	11,800	13,700	--	14,100	--	6,600E
MEAN	9,720	6,550	4,510	3,910	33,600	35,900	16,600	15,300	13,800	15,000	11,200	7,450E
MAX.	12,100	7,720	5,400	6,800	44,400	47,500	22,400	16,700	15,800	15,700	13,700	8,200E
MIN.	7,800	5,500	3,790	3,430	9,360	22,900	11,800	13,100	12,200	13,800	8,300	6,600E
M.F.C.	.670	.451	.310	.269	2.316	2.476	1.143	1.053	.948	1.035	.772	.513

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (11 Years)

MEAN 14,500 cfs

MAXIMUM 47,500 cfs on June 4

MAXIMUM INSTANTANEOUS --

MINIMUM 3,430 cfs on April 20

MINIMUM INSTANTANEOUS --

15,400 cfs

55,700 cfs on May 26, 1960

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2,430E cfs, March 31 to April 5, 1954

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NOTES:

* - Discharge measurement.

B - Ice effect to May 4 and from November 17.

I - Interpolated.

E - Estimated May 31 to June 2, July 25 to 28, September 1 to 3 and from December 1.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3AB-1).

WASWANUPI

AT OUTLET OF WASWANUPI LAKE

STATION NUMBER 080702

DRAINAGE AREA - 8710 SQ. MI.

STATION IN OPERATION SINCE 1949

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	6,400	4,230	3,500	3,260	13,600	22,100	25,400	21,600	12,800	8,540	7,000	9,900E
2	6,300	4,230	3,500	3,260	14,100	22,300	25,400	21,400	12,600	9,100	6,650	10,000
3	6,200	4,180	3,470	3,260	15,000	22,500	25,500	20,700	11,700	8,950I	6,530	10,000
4	6,150	4,160	3,430	3,260	16,100	22,500	25,600	20,400	11,400I	8,790I	6,490	10,100
5	6,000	4,130	3,400	3,260	17,300	22,300	25,600	19,300E	11,100I	8,600I	5,980	10,100
6	5,900	4,100	3,360	3,260	18,600	22,300	25,800	19,000	11,000I	8,450I	5,980	10,100
7	5,800	4,080	3,360	3,260	18,700	22,500	25,600	19,800E	10,800I	8,300I	6,800	10,200
8	5,700	4,060	3,360	3,260	19,000	22,400	25,300	20,500*	10,600I	8,160	6,860	10,200
9	5,600	4,030	3,360	3,260	19,800	22,300	25,400	20,600	10,500I	8,080	6,950	10,200
10	5,500	4,020	3,360	3,260	20,500	21,800	25,800	20,100	10,300	8,000	7,250	10,200
11	5,430	4,000	3,360	3,260	20,900	21,300	25,900	19,800	9,940	8,160	7,600	10,100
12	5,370	3,990	3,360	3,260	21,300	20,800	25,900	19,800	9,720	8,330	8,050	10,100
13	5,290	3,980	3,360	3,260	21,500	20,100	25,900	19,100	10,400	8,190	8,000	10,000
14	5,170	3,960	3,360	3,260	21,500	19,600	25,900	18,800	10,300	8,190	8,100	10,000
15	5,000	3,930	3,330	3,260	21,600	19,200	25,700	18,300	10,200	7,570	8,220	9,950
16	4,970	3,900	3,300	3,260	21,700	18,900	25,600	18,100	10,200	7,470	8,400	9,800
17	4,900	3,900	3,300	3,260	21,500	18,700	25,500	17,900	10,100	7,390	8,360	9,730
18	4,800	3,900	3,280	3,260	21,500	18,600	25,300	17,700	10,000	7,260	8,700	9,600
19	4,700	3,860*	3,200*	3,450	21,300	18,700	25,200	17,500	8,900	7,150	8,650	9,500
20	4,600	3,860	3,230	3,700	21,100	18,900	25,100	17,000	9,320	6,760	8,750	9,400
21	4,560	3,800	3,230	4,150	20,800	19,200	25,100	16,700	9,490	7,680	8,750B	9,300
22	4,430	3,730	3,230	4,800	21,500	19,300	25,100	16,300	9,490	7,810	8,750	9,200
23	4,430*	3,700	3,260	5,600	21,100	23,100	24,900	16,100	9,490	7,680	8,840	9,040
24	4,380	3,680	3,260	6,500	21,700	23,700	24,600	15,700	9,860	7,710	9,000	9,000
25	4,360	3,660	3,260	7,400	22,000	24,600	24,400	15,400	9,720	7,710	9,200	8,850
26	4,300	3,630	3,260	8,200	22,000	24,600	24,200	15,000	8,380	7,810	9,300	8,700
27	4,290	3,600	3,260	8,900	22,200	25,100	23,600	14,800	8,240	7,390	9,400	8,600
28	4,280	3,560	3,260	9,800	21,800	25,200	23,400	14,100	8,410	7,310	9,560E	8,480
29	4,300	--	3,260	10,700B	22,000	25,200	22,500	13,700	8,350	7,180	9,680	8,390
30	4,280	--	3,260	12,500	21,800	25,300	22,100	13,600	8,490	7,180	9,800	8,200
31	4,280	--	3,260	--	21,900	--	21,900	13,200	--	7,180	--	8,100E
MEAN	5,090	3,920	3,320	4,810	20,200	21,800	24,900	17,800	10,100	7,870	8,050	9,520E
MAX.	6,400	4,230	3,500	12,500	22,200	25,300	25,900	21,600	12,800	9,100	9,800E	10,200E
MIN.	4,280	3,560	3,200*	3,260	13,600	18,600	21,900	13,200	8,240	6,760	5,980	8,100E
M.F.C.	.441	.340	.288	.418	1.752	1.891	2.167	1.547	.874	.684	.699	.826

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (12 Years)

MEAN

11,500 cfs

15,100 cfs

MAXIMUM

25,900 cfs, July 11 to 14

55,700 cfs on May 26, 1960

MAXIMUM INSTANTANEOUS

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MINIMUM

3,200 cfs on March 19

2,430E cfs, March 31 to April 5, 1954

MINIMUM INSTANTANEOUS

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--

NOTES:

* - Discharge measurement.

B - Ice effect to April 29 and from November 21.

I - Interpolated.

E - Estimated August 5 to 7 and from November 28.

Stage discharge relation is extrapolated above 45,600 cfs and below 7,400 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3AB-1).

WASWANIPi

0.3 MI. DOWNSTREAM FROM OPAWICA RIVER

STATION NUMBER 080704

DRAINAGE AREA - 7260 SQ. MI.

STATION IN OPERATION SINCE 1962

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	5,580E	4,580E	3,750E	9,400E	36,400	14,000	10,200	9,920	12,900	10,200	6,330
2	--	5,500	4,560	3,720	11,000	38,400	13,100	10,200	9,900	12,400	10,100	6,220
3	--	5,420	4,520	3,700	12,500	37,800	12,800	8,800	10,100	12,300	9,950	6,200
4	--	5,400	4,480	3,680	14,000	36,900	12,700	11,200	9,900	12,400	9,650	6,200
5	--	5,390	4,440	3,650	15,500B	35,700	12,100	11,400	9,500	12,300	9,450	6,200
6	--	5,350	4,420	3,620	17,000	34,300	11,600	12,500	9,180	11,600	7,880	6,200
7	--	5,320	4,400	3,600	18,400	32,800	11,400	15,800	9,480	11,300	7,980	6,200
8	--	5,280	4,380	3,580	20,000	31,400	10,900	16,100	9,920	11,200	7,860	6,200
9	--	5,250	4,340	3,550	21,800	30,200	11,700	15,800*	10,300	11,000	8,680	6,200
10	--	5,200	4,300	3,530	24,000	28,800	11,800	15,900	10,400	10,700	8,620	6,200
11	--	5,180	4,280	3,510	26,000	27,500	11,600	17,600	10,400	10,300	8,580	6,200
12	--	5,150	4,260	3,500	29,000	26,400	11,400	16,700	10,800	10,200	7,930	6,200
13	--	5,100	4,240	3,500	30,900E	25,200	11,400	16,100	11,800	12,200	7,740	6,200
14	--	5,090	4,200	3,500	33,400*	24,000	11,300	16,000	12,400	13,200	7,760	6,200
15	--	5,040*	4,160*	3,500	34,000	23,000	11,900	15,300	11,100	13,900	7,780	6,200
16	--	5,000	4,130	3,520	35,300	22,400	13,000	16,100	14,200	13,600	7,740	6,200
17	--	4,990	4,100	3,530	36,500	22,100	13,100	15,900	13,800	13,600	7,740	6,200
18	--	4,980	4,080	3,560	37,500	22,000	12,700	15,400	15,100*	13,000	7,710	6,200
19	--	4,950	4,010	3,600	38,300	21,700	12,000	15,100	15,500	12,900	7,400B	6,200
20	--	4,900	4,000	3,650	37,500	20,800	11,600	14,500	15,700	13,000	7,210	6,200
21	--	4,850	3,990	3,800	37,200	19,800	11,300	13,800	15,500	12,800	7,207	6,200
22	--	4,820	3,980	4,200	36,400	18,800	11,200	13,000	15,500	12,800	7,160	6,200
23	--	4,800	3,930	4,400	35,300	18,100	11,000	12,500	15,200	12,400	7,090	6,200
24	--	4,780	3,900	5,000	34,000	17,300	10,800	11,900	14,900	12,100	6,960	6,200
25	--	4,750	3,880	5,400	33,500	16,800	10,800	11,000	14,600	11,900	6,800	6,200
26	--	4,680	3,870	6,100	32,800	16,500	10,300	11,100	13,900	12,000	6,650	6,200
27	--	4,650	3,840	6,800	32,800	15,900	10,200	10,900	13,500	11,300	6,610	6,200
28	--	4,620	3,810	7,500	32,200	15,400	10,100	10,200	13,100	11,200	6,600	6,190
29	--	--	3,800	8,000	31,200	14,900	10,200	10,100	13,000	10,900	6,560	6,180
30	--	--	3,790	8,800	32,700	14,600	10,500	9,800	13,000	10,300	6,480	6,160
31	--	--	3,760	--	30,900	--	10,200	9,920	--	10,200	--	6,100
MEAN	--	5,070E	4,140E	4,390E	28,100E	24,900	11,600	13,300	12,400	12,000	7,870	6,200
MAX.	--	5,580E	4,580E	8,800E	38,300	38,400	14,000	17,600	15,700	13,900	10,200	6,330
MIN.	--	4,620E	3,760E	3,500E	9,400E	14,600	10,100	8,800	9,180	10,200	6,480	6,100

FOR THE YEAR 1962

MEAN --

MAXIMUM 38,400 cfs on June 2

MAXIMUM INSTANTANEOUS --

MINIMUM 3,500E cfs, April 12 to 15

MINIMUM INSTANTANEOUS --

NOTES:

* - Discharge measurement.
 B - Ice effect to May 5 and from November 19.
 E - Estimated to May 13.
 Stage discharge relation is extrapolated above 33,500 cfs and below 7,000 cfs.
 Accuracy of Records: periods without effect of ice, good; those with ice effect, fair.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3AA-1).

WASWANIPi

0.3 MI. DOWNSTREAM FROM OPAWICA RIVER

STATION NUMBER 080704

DRAINAGE AREA - 7260 SQ. MI.

STATION IN OPERATION SINCE 1962

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,980	3,820	3,050	2,780	16,100	18,900	20,400	18,200	8,820	6,500	5,750	7,890
2	5,900	3,800	3,030	2,780	16,400	18,600	21,300	18,000	8,580	6,410	5,750	7,980
3	5,850	3,740	3,000	2,780	16,400	18,700	21,300	14,700	8,360	6,320	5,710	8,000
4	5,800	3,700	3,000	2,780	17,000	18,700*	21,200	14,900	8,190	6,230	5,650	8,060
5	5,780	3,650	3,000	2,780	17,700	18,700	20,800	16,400	8,020	6,190	5,650	8,120
6	5,620	3,600	3,000	2,780	18,000	18,900	20,400	17,700	7,900	6,020	5,460	8,120
7	5,590	3,580*	3,000*	2,780	18,300	18,500	20,300	18,000	7,620	6,150	5,580	8,120
8	5,430	3,530	2,980	2,780	18,300	18,000	19,800	17,800	7,500	6,260	5,650	8,100
9	5,400	3,500	2,950	2,780	18,300	17,400	19,900	17,200	7,480	6,300	5,830	8,100
10	5,300*	3,470	2,930	2,780	18,200*	15,800	20,400	16,500	6,980	6,280	6,280	8,100
11	5,200	3,440	2,920	2,780	18,200	16,200	21,300	15,700	6,960	6,230	6,720	8,100
12	5,180	3,400	2,910	2,790	18,000	15,600	21,400	15,000	7,480	6,080	6,940	8,100
13	5,010	3,350	2,900	2,800	17,800	15,000	21,100	14,800	7,500	6,080	7,160	8,000
14	4,990	3,320	2,890	2,810	17,900	14,600	20,400	14,400	7,520	6,040	7,200*	8,000
15	4,890	3,300	2,890	2,850	18,000	14,200	19,900	13,800	7,500	5,980	7,000	8,000
16	4,800	3,280	2,880	2,900	18,200	14,100	19,800	13,400	7,340	5,930	6,960	7,960
17	4,710	3,250	2,860	3,100	18,200	13,800	20,100	13,000	7,070	5,830	6,940	7,820
18	4,630	3,230	2,850	4,200	18,200	14,200	20,500	12,600	6,960	5,750	6,990	7,780
19	4,600	3,200	2,840	4,600	18,200	14,200	20,600	12,600	6,960	5,730	7,000	7,600
20	4,500	3,190	2,820	4,800	18,700	15,100	20,300	12,000	7,140	5,670	7,000	7,510
21	4,420	3,160	2,810	5,980*	19,300	19,200	20,400	11,700	7,360	5,610	7,080	7,400
22	4,380	3,150	2,800	6,740	19,400	22,100	20,100	11,400	7,430	5,650	7,120	7,300
23	4,300	3,130	2,800	7,280	19,500	23,200	19,700	11,200	7,410	5,610	7,200	7,200
24	4,230	3,110	2,800	8,400	19,200	24,100	19,200	10,900	7,160	5,610	7,280	7,100
25	4,150	3,100	2,800	9,130	18,900	23,800	18,800*	10,500	7,140*	5,630	7,340	7,000
26	4,100	3,100	2,790	10,000	18,000	23,000*	18,000	10,200	6,980	5,670	7,400	6,920
27	4,060	3,080	2,780	10,700	17,900	22,300	17,700	10,000	6,940	5,870	7,600	6,820
28	4,000	3,050	2,780	11,100	17,400	21,600	17,400	9,720*	6,780	6,020	7,700	6,800
29	3,950	3,030	2,780	12,100	17,200	21,400	17,400	9,580	6,650	6,060	7,750	6,750
30	3,900	--	2,780	15,300	17,800	20,600	17,900	9,420	6,540	6,020	7,800	6,680
31	3,880	--	2,780	--	18,600	--	18,000	9,100	--	5,850	--	6,600
MEAN	4,860	3,350	2,880	5,270	18,000	18,400	19,900	13,600	7,410	5,990	6,720	7,610
MAX.	5,980	3,820	3,050	15,300	19,500	24,100	21,400	18,200	8,820	6,500	7,800	8,120
MIN.	3,880	3,030	2,780	2,780	16,100	13,800	17,400	9,100	6,540	5,610	5,460	6,600
M.F.C.	.509	.352	.302	.553	1.893	1.926	2.085	1.423	.777	.628	.705	.799

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

9,530 cfs

9,530 cfs

MAXIMUM

24,100 cfs on June 24

38,400 cfs on June 2, 1962

MAXIMUM INSTANTANEOUS

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MINIMUM

2,780 cfs, March 27 to April 11

2,780 cfs, March 27 to April 11, 1963

MINIMUM INSTANTANEOUS

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* - Discharge measurement.

B - Ice effect to April 21 and from November 14.

Stage discharge relation is extrapolated above 33,500 cfs and below 7,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3AA-1).

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

NATURAL DAILY DISCHARGES

GAUGE - RECORDING

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1956

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	15,100*	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.
Accuracy of records: good.

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	14,500*	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MTN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.
 Accuracy of records: good.

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

NATURAL DAILY DISCHARGES

GAUGE - RECORDING

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	22,500*	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	12,900*	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	7,140*	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.
Accuracy of records: good.

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	8,250E	5,750E	4,300E	--	--	--	--	--	--	12,500E	--	--
2	8,100	5,650	4,250	--	--	--	--	--	--	12,300	--	--
3	8,000	5,600	4,200	--	--	--	--	--	--	12,200	--	--
4	7,900	5,550	4,180	--	--	--	--	--	--	12,100	--	--
5	7,800	5,500	4,150	--	--	--	--	--	--	12,100	--	--
6	7,700	5,450	4,120	--	--	--	--	--	--	12,300	--	--
7	7,600	5,350	4,100	--	--	--	--	--	--	12,800	--	--
8	7,550	5,300	4,080	--	--	--	--	--	--	13,200	--	--
9	7,450	5,250	4,050	--	--	--	--	--	--	13,200	--	--
10	7,400	5,200	4,020	--	--	--	--	--	--	13,200	--	--
11	7,300	5,150	4,000	--	--	--	--	--	--	13,300	--	--
12	7,200	5,100	3,980	--	--	--	--	--	--	13,400	--	--
13	7,150	5,050	3,970	--	--	25,800*	--	--	--	13,500	--	--
14	7,050	5,000	3,960	--	--	--	--	--	--	13,600	--	--
15	7,000	4,950	3,950	--	--	--	--	--	--	13,600	--	--
16	6,950	4,900	3,940	--	--	--	--	--	--	13,600	--	--
17	6,850	4,850	3,920	--	--	--	--	--	--	13,600	--	--
18	6,800	4,800	3,900	--	--	--	--	--	--	13,600	--	--
19	6,700	4,750	3,880	--	--	--	--	--	--	13,600	--	--
20	6,600	4,700	3,850	--	--	--	11,700*	15,000*	12,500E	13,600E	--	--
21	6,550	4,650	3,830*	--	--	--	--	--	12,300	--	--	--
22	6,450	4,630	3,820	--	--	--	--	--	12,200	--	--	--
23	6,350	4,600	3,800	--	--	--	--	14,400	12,200	--	--	--
24	6,250	4,550	3,780	--	--	--	--	--	12,300	--	--	--
25	6,200	4,500	3,750	--	--	--	--	--	12,300	--	--	--
26	6,100	4,450	3,730	--	--	--	--	--	12,400	--	--	--
27	6,050	4,400	3,710	--	--	--	--	--	12,600	--	--	--
28	6,000*	4,350*	3,700	--	--	--	--	--	12,700	--	--	--
29	5,900	4,330	3,680	--	--	--	--	--	12,700	--	--	--
30	5,850	--	3,660E	--	--	--	--	--	12,600	--	--	--
31	5,800	--	3,650B	--	--	--	--	--	--	--	--	--
MEAN	6,930E	4,980E	3,930E	--	--	--	--	--	--	--	--	--
MAX.	8,250E	5,750E	4,300E	--	--	--	--	--	--	--	--	--
MIN.	5,800E	4,330E	3,650E	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1960

MEAN --

MAXIMUM 25,800 cfs on June 13

MAXIMUM INSTANTANEOUS --

MINIMUM 3,650E cfs on March 31

MINIMUM INSTANTANEOUS --

NOTES:

* - Discharge measurement.
 B - Ice effect to March 31.
 E - Estimated to March 30 and from September 20 to October 20.
 Stage discharge relation is extrapolated above 25,900 cfs and below 5,500 cfs.
 Accuracy of records: poor.
 Five discharge measurements were made from 1956 to 1959.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3BE-1).

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	10,700E	5,900E	4,310E	--	--	18,900I	11,400	7,650	5,650	7,940	12,900	13,000E
2	10,400	5,800	4,280	--	--	18,600I	11,300	7,550	5,650	8,420	12,800	12,900
3	10,000	5,700	4,250	--	--	18,200I	10,900	7,470	5,700	8,360	13,000	12,800
4	9,800	5,630	4,230	--	--	17,900I	10,500	7,310	5,650	8,360	13,500	12,700
5	9,600	5,580	4,200	--	--	17,600I	10,500	7,180	5,460	8,340	14,400	12,600
6	9,500	5,500	4,170	--	--	17,300I	10,500	7,080	5,460	8,420	14,700	12,500
7	9,350	5,400	4,130	--	--	16,900I	10,400	7,030	5,550	8,550	14,700	12,400
8	9,200	5,370	4,100	--	--	16,700	10,100	6,800	5,630	8,550	14,700	12,300
9	8,900	5,270	4,090	--	--	16,400	9,970	6,750	5,580*	8,550	14,700	12,200
10	8,700	5,230	4,070	--	--	16,200	9,830	6,680	5,700	8,660	14,500	12,100
11	8,600	5,200	4,050	--	--	15,800	9,540	6,500	6,320	9,060	14,300	12,000
12	8,400	5,150	4,030	--	--	15,400I	9,260	6,350	6,880	9,170	14,300	11,900
13	8,200	5,080	4,010	--	--	15,000	9,230	6,180	6,950	9,540	14,300	11,700
14	8,000	5,030	4,000	--	--	14,500*	9,200	6,150	6,900	9,710	14,200	11,600
15	7,850	4,900	3,980	--	--	14,400I	9,080	6,500	6,850	9,600	14,200	11,500
16	7,800	4,800	3,970	--	--	14,200I	8,920	6,550	6,850	9,940	14,000	11,300
17	7,600	4,800	3,950	--	--	14,100	8,640	6,550	7,130	10,100	13,700	11,200
18	7,400	4,750	3,940	--	--	13,900	8,530	6,550	7,390	10,400	13,700	11,100
19	7,300	4,710	3,930	--	--	13,700	8,580	6,550	7,550	10,900	13,700	11,000
20	7,180*	4,650	3,920	--	--	13,500	8,580	6,380	7,520	11,000	13,600B	10,800
21	7,100	4,600	3,900	--	--	13,400	8,550	6,230	7,420	11,200	13,600E	10,700
22	7,000	4,570	3,890	--	--	13,200	8,280	6,110	7,160	11,300	13,500	10,600
23	6,800	4,550	3,870	--	--	13,000	8,200	6,150	6,950	11,500	13,500	10,500
24	6,700	4,520	3,850*	--	--	12,700	8,090	5,870	7,020	11,600	13,400	10,300
25	6,600	4,500*	3,830	--	--	12,400	8,040	5,810	7,110	11,700	13,400	10,100
26	6,500	4,450	3,820	--	--	12,300	7,990	5,960	7,070	11,800	13,400	10,000
27	6,400	4,400	3,810	--	--	12,300	7,910	5,890	6,880	12,100	13,300	9,900
28	6,300	4,360	3,800	--	--	12,200	7,910*	5,670	6,950	12,900	13,200	9,800
29	6,200	--	3,780	--	--	11,900	7,940	5,650	7,110	13,300	13,100	9,700
30	6,080	--	3,770E	--	--	11,400	7,810	5,650	7,530	13,200	13,000	9,500
31	5,990	--	3,750B	--	--	--	7,600	5,650	--	13,000	--	9,400E
MEAN	7,940E	5,010E	3,990E	--	--	14,800	9,140	6,460	6,590	10,200	13,800E	11,300E
MAX.	10,700E	5,900E	4,310E	--	--	18,900I	11,400	7,650	7,550	13,300	14,700	13,000E
MIN.	5,990E	4,360E	3,750E	--	--	11,400	7,600	5,650	5,460	7,940	12,800	9,400E

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

--

--

MAXIMUM

18,900I cfs on June 1

25,800 cfs on June 13, 1960

MAXIMUM INSTANTANEOUS

--

--

MINIMUM

3,750E cfs on March 31

3,650E cfs on March 31, 1960

MINIMUM INSTANTANEOUS

--

--

NOTES:

* - Discharge measurements.

B - Ice effect to March 31 and from November 20.

I - Interpolated.

E - Estimated to March 30 and from November 21.

Stage discharge relation is extrapolated above 25,900 cfs and below 5,500 cfs.

Accuracy of records: poor.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3BE-1).

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	9,300	6,550	4,650	3,760*	3,800	24,700	15,000	11,100	9,170E	11,200E	8,390E	6,800E
2	9,200	6,500	4,550	3,740	4,200	24,900	14,800	11,000	9,030	11,200	8,420	6,800
3	9,100	6,400	4,530	3,720	5,400	25,700	14,600	11,000	9,100	11,100	8,580	6,770
4	9,000	6,350	4,500	3,700	6,600	25,800	14,500	10,800	9,200	11,000	8,130	6,750
5	8,950	6,300	4,450	3,690	8,600	26,000	14,300	10,800	9,300	11,000	8,290	6,720
6	8,850	6,200	4,350	3,680	10,800	25,500	14,100	10,700	9,370	10,900	8,500	6,680
7	8,800	6,100	4,300	3,670	12,300	25,300	13,900	10,600	9,510	10,800	8,180	6,650
8	8,700	6,000	4,270	3,660	13,300	24,600	13,600	10,400	9,510	10,700	8,260	6,650
9	8,600	5,950	4,230	3,640	13,500	24,600	13,700	10,200*	9,830	10,400	8,000	6,630
10	8,500	5,850	4,200	3,630	13,600B	24,200	14,100	10,100	10,100	10,300	7,900	6,610
11	8,400	5,800	4,150	3,610	14,000	23,400	14,100	10,100	10,400	10,100	7,800	6,600
12	8,300	5,700	4,100	3,600	14,400	22,500	13,900	9,970	10,600	10,200	7,670	6,580
13	8,200	5,650	4,080	3,590	15,100	22,100	13,800	9,910	10,900	10,300	7,600	6,570
14	8,100	5,600	4,050	3,580	16,400	21,800	13,600	9,800	11,100	10,500	7,550	6,550
15	8,000	5,500	4,000	3,560	17,400	21,400	13,600	9,770	11,200	10,700	7,400B	6,530
16	7,950	5,400	3,990	3,550	18,700	20,600	13,500	9,800	11,300	10,500	7,350	6,500
17	7,850	5,350	3,970	3,540	20,000	19,700	13,300	9,680	11,400	10,800	7,300	6,480
18	7,700	5,300	3,950	3,530	21,800	19,300	13,100	9,830	11,400	10,700	7,220	6,450
19	7,600	5,250	3,930	3,520	22,500	19,300	12,800	9,860	11,400	10,500	7,180	6,420
20	7,550*	5,200	3,920	3,510	23,200	18,400	12,600	9,880	11,300	10,500	7,150	6,400
21	7,450	5,100	3,900	3,500	23,600	18,300	12,400	9,800	11,500	10,500	7,100	6,370
22	7,400	5,000	3,880	3,500	24,200	17,900	12,200	9,650	11,500	10,300	7,050	6,330
23	7,300	4,950*	3,870	3,490	24,500	17,500	12,200	9,340E	11,500	9,780	7,000	6,300
24	7,200	4,900	3,860	3,490	24,700	17,100	12,100	9,490	11,500	9,690	7,000	6,250
25	7,100	4,850	3,850	3,480	24,400	16,500	11,900	9,650	11,500	9,920	6,970	6,200
26	7,000	4,800	3,840	3,470	24,800	16,200	11,700	9,370	11,400	9,800	6,950	6,150
27	6,900	4,770	3,820	3,470	25,600	15,700	11,600	9,680	11,400	9,490	6,900	6,100
28	6,800	4,730	3,810	3,460	25,900	15,500	11,500	9,540	11,200	9,120	6,870	6,000
29	6,750	--	3,800	3,450	25,800	15,500	11,400	9,540	11,400E	9,210	6,850	5,970
30	6,700	--	3,790	3,550	25,700	15,300	11,400	9,140	11,400	9,070	6,830	5,950
31	6,600	--	3,780	--	25,700	--	11,400	9,140	--	8,930	--	5,900
MEAN	7,930	5,570	4,080	3,580	17,800	20,800	13,100	9,990E	10,600E	10,300E	7,550E	6,440E
MAX.	9,300	6,550	4,650	3,760*	25,900	26,000	15,000	11,100	11,500E	11,200E	8,580E	6,800E
MIN.	6,600	4,730	3,780	3,450	3,800	15,300	11,400	9,140E	9,030E	8,930E	6,830E	5,900E
M.F.C.	.805	.566	.414	.363	1.804	2.117	1.332	1.014	1.081	1.046	.766	.654

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

9,840 cfs

9,840 cfs

MAXIMUM

26,000 cfs on June 5

26,000 cfs on June 5, 1962

MAXIMUM INSTANTANEOUS

26,200 cfs on June 5 at 5 p.m.

26,200 cfs on June 5, 1962 at 5 p.m.

MINIMUM

3,450 cfs on April 29

3,450 cfs on April 29, 1962

MINIMUM INSTANTANEOUS

3,450 cfs on April 29 at noon

3,450 cfs on April 29, 1962 at noon

NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 15.

E - Estimated August 23 to September 29 and from October 1.

Stage discharge relation is extrapolated above 25,900 cfs and below 5,500 cfs.

Accuracy of records: fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3BE-1).

BROADBACK

1.0 MI. DOWNSTREAM FROM THE WASWAGAMI RIVER

STATION NUMBER 080801

DRAINAGE AREA - 6770 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,850E	3,950	2,900	2,640	3,700E	13,700E	12,300I	12,300	7,000	4,910	3,970	4,950
2	5,800	3,900	2,880	2,630	3,830	14,200	12,300I	12,100	6,930	4,950	3,870	5,000
3	5,750	3,820	2,860	2,620	4,000	14,700	12,300I	11,700	6,860	4,910	3,630	5,100
4	5,700	3,780	2,850	2,620	4,200	15,000	12,300	11,500	6,630	4,760	3,560	5,400
5	5,650	3,720	2,830	2,610	4,400	15,200E	12,300	11,300	6,470	4,760	3,740	5,600
6	5,600	3,680	2,820	2,610	4,600	15,300	12,500	11,100	6,400	4,690	3,790	5,550
7	5,550	3,620	2,810	2,600	4,800	15,300	12,400	10,900	6,330	4,580	3,710	5,450
8	5,500	3,580	2,800	2,600	5,000	15,200	12,200	10,700	6,270	4,560	3,770	5,300
9	5,450	3,520	2,790	2,600	5,300	14,900	12,000	10,400	6,050	4,490	3,850	5,300
10	5,400	3,480	2,780	2,590	5,500B	14,500	12,000	10,100*	5,920	4,580	3,870	5,350
11	5,350	3,420	2,780	2,590	5,800	14,700	12,300	9,980	6,050	4,440	3,870	5,400E
12	5,250	3,380	2,770	2,590	6,000	14,400	12,200	9,830	6,030	4,370	3,850	5,600
13	5,200	3,320	2,770	2,590	6,300	14,200	12,300	9,800	5,810	4,220	3,760	5,750
14	5,120	3,300	2,760	2,580	6,600	14,000	12,200	9,570	5,750	4,240	3,690	5,850
15	5,050E	3,250	2,750	2,580	6,800	13,900	11,800	9,350	5,730	4,220	3,690	5,880
16	5,000	3,220	2,740	2,570	7,000	14,100	11,600	9,230	5,860	4,220	3,760	5,940
17	4,950	3,210	2,730	2,580E	7,400	13,900	11,900	9,120	5,730	4,220	3,840	5,950
18	4,870	3,150	2,720	2,590	7,600	13,900	12,000	8,930	5,550	4,200	3,610	5,950
19	4,800	3,110	2,710	2,610	8,000	13,600	12,000	8,710	5,550	4,200	3,820B	5,930
20	4,750	3,080	2,700	2,680	8,350	13,400	12,000	8,630	5,630	4,120	3,060	5,900
21	4,700	3,050	2,700	2,700	8,650	12,800	11,900	8,610	5,750	4,040	3,600	5,820
22	4,650	3,020*	2,700*	2,800	9,000	12,500	11,700	8,580	5,670	4,040	3,820	5,800
23	4,600	3,000	2,700	2,830	9,400	12,600	11,700	8,340	5,550	4,100	3,870	5,750
24	4,500*	2,980	2,700	2,900	9,800	12,600	11,700	8,130	5,420	4,130	3,950	5,670
25	4,400	2,970	2,700	2,970	10,200	12,600	11,700	8,060	5,340	4,070	4,050	5,600
26	4,350	2,950	2,690	3,080	10,700	12,200	11,700	7,930	5,340	4,100	4,150	5,550
27	4,300	2,920	2,690	3,200	11,200	12,200	12,000	7,630	5,340	4,170	4,320	5,480
28	4,230	2,910	2,680	3,330	11,700E	12,200I	12,000	7,550	5,300	4,200	4,550	5,420
29	4,130	--	2,670	3,450	12,300	12,200I	12,000	7,430	5,260	4,200	4,800	5,360
30	4,080	--	2,660	3,600	13,000E	12,200I	12,000	7,400	5,070	4,120	4,900	5,290
31	4,000	--	2,650	--	13,300	--	12,300	7,310	--	4,020	--	5,220
MEAN	4,980E	3,330	2,750	2,760E	7,560E	13,700E	12,100	9,430	5,890	4,350	3,890	5,550E
MAX.	5,850E	3,950	2,900	3,600E	13,300E	15,300	12,500	12,300	7,000	4,950	4,900	5,950E
MIN.	4,000	2,910	2,650	2,570	3,700E	12,200	11,600	7,310	5,070	4,020	3,060	4,950
M.F.C.	.781	.522	.431	.433	1.185	2.153	1.888	1.477	.922	.681	.609	.870

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 6,380 cfs

MAXIMUM 15,300 cfs on June 6 and 7

MAXIMUM INSTANTANEOUS 15,300 cfs on June 6 at noon

MINIMUM 2,570 cfs on April 16

MINIMUM INSTANTANEOUS --

8,110 cfs

26,000 cfs on June 5, 1962

26,200 cfs on June 5, 1962 at 5 p.m.

2,570 cfs on April 16, 1963

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NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 19.

I - Interpolated.

E - Estimated to January 15, April 17 to May 28, May 30 to June 5 and from December 11.

Stage discharge relation is extrapolated above 25,900 cfs and below 5,500 cfs.

Accuracy of records: fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3BE-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1950												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	43,000	--	25,200	27,400	--
2	--	--	--	--	--	--	--	43,400	--	24,600	28,000	--
3	--	--	--	--	--	--	--	43,400	31,700	23,400	27,600	--
4	--	--	--	--	--	--	--	43,000	31,700	24,000	28,000	--
5	--	--	--	--	--	--	--	42,800	30,400	24,300I	28,000	--
6	--	--	--	--	--	--	--	42,500	30,400	24,600	27,600	--
7	--	--	--	--	--	--	--	42,600	31,100	24,600	27,400	--
8	--	--	--	--	--	--	--	42,100	30,400	24,600	27,400	--
9	--	--	--	--	--	--	--	41,700	30,400	24,300	27,600	--
10	--	--	--	--	--	--	--	40,500	30,100	24,600	27,900I	--
11	--	--	--	--	--	--	--	40,600	30,100	24,600	28,200	--
12	--	--	--	--	--	--	--	40,100	29,700	24,600	29,200	--
13	--	--	--	--	--	--	--	39,700	28,700	24,900	28,900	--
14	--	--	--	--	--	--	--	39,300	28,100	24,600	28,600	--
15	--	--	--	--	--	--	--	38,200	28,100	25,200	28,900	--
16	--	--	--	--	--	--	--	38,200	27,800	25,500	29,600	--
17	--	--	--	--	--	--	--	38,200	27,200	25,500	30,300	--
18	--	--	--	--	--	--	45,100	38,200	27,200	26,100	30,300	--
19	--	--	--	--	--	--	45,600	38,200	26,900	26,100	30,900	--
20	--	--	--	--	--	--	45,100	37,400	26,900	26,400	30,900	--
21	--	--	--	--	--	--	45,100	37,400	26,900	26,700	31,300	--
22	--	--	--	--	--	--	44,700	--	26,500	26,700	31,300	--
23	--	--	--	--	--	--	44,200	--	26,500	26,700I	31,300	--
24	--	--	--	--	--	--	44,200	--	26,500	26,700	30,900	--
25	--	--	--	--	--	--	44,200	--	26,200	26,700	30,900	--
26	--	--	--	--	--	--	44,100	--	25,800	27,000	30,500	--
27	--	--	--	--	--	--	44,100	--	25,500	27,000	30,100B	--
28	--	--	--	--	--	--	44,200	--	25,200	26,700	29,900	--
29	--	--	--	--	--	--	43,600	--	25,200*	26,700	29,600	--
30	--	--	--	--	--	--	43,000	--	24,900	26,700	29,100	--
31	--	--	--	--	--	--	43,000	--	--	27,300	--	--
MEAN	--	--	--	--	--	--	--	--	--	25,600	29,300	--
MAX.	--	--	--	--	--	--	--	--	--	27,300	31,300	--
MIN.	--	--	--	--	--	--	--	--	24,900	23,400	27,400	--

FOR THE YEAR 1950

MEAN

--

MAXIMUM

45,600 cfs on July 19

MAXIMUM INSTANTANEOUS

--

MINIMUM

23,400 cfs on October 3

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect from November 27.

I - Interpolated.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1951

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	30,500	26,900	26,500	24,200	22,000	20,900	27,900	27,000E
2	--	--	--	--	30,900	26,600	26,500	24,200	22,000	21,200	28,500	27,300
3	--	--	--	--	30,900	26,300	26,500	24,200	21,700	21,500	28,400	28,000
4	--	--	--	--	30,500	26,000	26,200	24,200	21,400	21,800	27,900	28,800
5	--	--	--	--	30,200	26,000	25,900	24,200	21,400	22,400	27,600	29,500
6	--	--	--	--	30,000I	25,700	25,600	24,500	21,100	23,000	27,400E	30,000
7	--	--	--	--	29,700	25,700	25,300	24,500	21,100	23,000	26,900B	30,800
8	--	--	--	--	29,500	25,700	24,700	24,500	20,800	23,000	26,700	31,200
9	--	--	--	--	29,500	25,400	24,400	24,800	20,500	22,700	26,300	31,900
10	--	--	--	--	29,500	25,400	24,000I	25,100	20,600	22,700	26,100	32,300
11	--	--	--	--	29,500	25,400	23,900I	25,100	20,500	23,300	25,900	32,800
12	--	--	--	--	29,500	25,400	23,800I	25,100	20,300	22,400	25,800	32,900
13	--	--	--	--	29,200	25,100	23,500I	25,100	20,000	22,400	25,700	33,000
14	--	--	--	--	29,200	25,100	23,500	25,100	20,000	22,400	25,500	33,000
15	--	--	--	30,300	29,200	25,100	23,500I	25,100	20,000	23,000	25,400	32,900
16	--	--	--	30,900	29,200	25,100	23,500	25,100	20,000	23,300	25,300	32,500
17	--	--	--	31,300	29,200	25,400	23,500	25,100	20,000	23,600	25,200	32,000
18	--	--	--	31,900	29,200	25,400	23,500	24,800	20,000	23,600	25,100	31,800
19	--	--	--	31,900	28,500	25,700	23,500	24,500	20,000	23,600	25,100	31,200
20	--	--	--	31,600	28,500	25,700	23,500	24,500	20,000	23,300	25,100	31,000
21	--	--	--	31,600	28,500	26,000	23,500	24,500	20,000	23,600	25,100	30,800
22	--	--	--	31,100I	28,500	26,600	23,500	24,500	20,000	24,200	25,200	30,200
23	--	--	--	30,600	28,500	26,900	23,500	24,200	20,000	24,800	25,300	30,000
24	--	--	--	30,600	28,200	26,900	23,500	24,200	20,000	26,300	25,400	29,900
25	--	--	--	30,900	27,900	26,900	23,800	23,600	20,000	26,300	25,500	29,200
26	--	--	--	30,900	27,900	26,900	24,400	23,300	20,000	26,600	25,800	29,000
27	--	--	--	30,900	27,900	26,900	24,400	23,000	20,300	26,900	25,900	28,900
28	--	--	--	30,900	27,600	26,600	24,400	23,000	20,500	27,200	26,100	28,300
29	--	--	--	30,900	27,600	26,600	24,400	22,700	20,600	27,200	26,300	28,000
30	--	--	--	30,900	27,300	26,600	24,400	22,700	20,800	27,500	26,700	27,900
31	--	--	--	--	27,300	--	24,400	22,100	--	27,500	--	27,800
MEAN	--	--	--	--	29,000	26,000	24,400	24,200	20,500	23,900	26,200E	30,300E
MAX.	--	--	--	--	30,900	26,900	26,500	25,100	22,000	27,500	28,500	33,000E
MIN.	--	--	--	--	27,300	25,100	23,500I	22,100	20,000	20,900	25,100E	27,000E

FOR THE YEAR 1951

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

31,900 cfs on April 18 and 19

45,600 cfs on July 19, 1950

MAXIMUM INSTANTANEOUS

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MINIMUM

20,000 cfs, September 13 to 26

20,000 cfs, September 13 to 26, 1951

MINIMUM INSTANTANEOUS

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NOTES:

B - Ice effect from November 7.

I - Interpolated.

E - Estimated from November 6.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1952												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	27,700E	23,000E	19,900E	18,400E	24,000E	37,500I	39,000I	44,200	43,000	50,700	41,100	32,200E
2	27,500	23,000	19,900	18,400	25,000E	37,500I	38,500	44,200	43,400I	51,800	40,900	32,100
3	27,200	22,900	19,900	18,400	26,000E	37,500	38,100	44,200	43,800	52,000	40,500	32,000
4	27,100	22,700	19,900	18,400	27,000	37,000I	38,400I	45,400	44,600	52,000	40,100	31,900
5	26,900	22,500	19,800	18,400	28,000	36,400	38,900I	45,400	44,600	51,600	40,100	31,800
6	26,800	22,400	19,700	18,300	29,500	36,400	39,300	45,000I	44,200	51,100	39,700	31,500
7	26,600	22,300	19,600	18,300	31,000	36,400	39,300I	44,700I	44,200	50,100	38,900	31,400
8	26,400	22,200	19,500	18,300	32,600	37,500	39,300I	44,600I	43,400	48,800	38,600	31,300
9	26,300	22,100	19,500	18,300	34,000	37,500	39,300	45,000	43,400	47,800I	38,600	31,200
10	26,100	22,000	19,400	18,300	35,100	37,500	40,500	46,200	43,400	47,800I	39,700	31,100
11	26,000	21,900	19,300	18,200	36,600	37,900	40,900	47,300I	43,400	48,800	38,900	31,000
12	25,900	21,800	19,200	18,200	38,300I	37,900	41,000I	48,300	43,000	49,300	37,800	31,000
13	25,600	21,600	19,200	18,200	40,100I	38,300	41,200I	49,200	43,000	49,300	37,000	30,900
14	25,500	21,400	19,200	18,300	42,000I	38,700	41,300	50,300I	42,600	48,800	36,300	30,800
15	25,300	21,300	19,100	18,300	44,100	38,700	41,700	51,300	42,500I	48,400	36,600	30,700
16	25,100	21,200	19,100	18,300	44,800	39,100I	41,500	52,400	42,400	47,900	36,800	30,600
17	25,000	21,100	19,000	18,300	43,200I	39,200I	41,500	52,800	42,400	47,100	36,900	30,500
18	24,900	21,000	19,000	18,400	41,600	39,300I	41,500	52,900I	44,100I	47,100	36,800	30,300
19	24,800	21,000	18,900	18,500	40,800	39,300I	41,500I	52,900	45,700	47,100	36,600	30,200
20	24,600	20,900	18,900	18,700	40,000	39,300I	41,500	51,200	45,600	46,200	36,100	30,200
21	24,400	20,800	18,900	18,900	40,000I	39,300I	41,500I	51,100	46,000	45,400	35,500	30,100
22	24,200	20,600	18,900	19,000	39,800I	39,400	41,500	51,200	47,000	44,800	35,200E	30,000
23	24,100	20,400	18,900	19,300	39,200	39,400	41,400I	51,100	47,300	44,200	34,900	30,000
24	24,000	20,300	18,900	19,800	39,200	39,600I	41,200	51,200	47,300	43,800	34,500	29,900
25	23,900	20,200	18,900	20,000	39,200	39,800	41,300I	50,300	47,300	44,000	34,100	29,800
26	23,800	20,100	18,900	20,300	38,800I	39,800	41,300	49,500	47,300	43,000	33,800	29,700
27	23,600	20,000	18,800	21,000	38,400	40,000I	43,900	48,100	47,700	42,600	33,200	29,600
28	23,400	20,000	18,800	21,900I	38,400	40,000I	44,000I	48,100	49,900	42,200	33,000	29,500
29	23,200	20,000	18,600	22,500	38,000I	39,800	44,000I	47,700	50,700	41,800	32,800	29,400
30	23,100	--	18,600	23,300	37,600	39,800	44,100I	46,400	50,700	41,000	32,500	29,300
31	23,100	--	18,600	--	37,500I	--	44,100I	44,800	--	41,000	--	29,200
MEAN	25,200E	21,400E	19,200E	19,100E	36,400	38,500	41,000	48,300	45,100	47,000	36,900	30,600E
MAX.	27,700E	23,000E	19,900E	23,300E	44,800	40,000I	44,100I	52,900I	50,700	52,000	41,100	32,200E
MIN.	23,100E	20,000E	18,600E	18,200E	24,000E	36,400	38,100	44,200	42,400	41,000	32,500	29,200E
M.F.C.	.739	.627	.562	.559	1.067	1.128	1.202	1.414	1.322	1.377	1.081	.896

FOR THE YEAR 1952

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

34,100 cfs

34,100 cfs

MAXIMUM

52,900 cfs on August 18 and 19

52,900 cfs on August 18 and 19, 1952

MAXIMUM INSTANTANEOUS

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MINIMUM

18,200E cfs, April 11 to 13

18,200E cfs, April 11 to 13, 1952

MINIMUM INSTANTANEOUS

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NOTES:

B - Ice effect to May 3 and from November 22.

I - Interpolated.

E - Estimated to May 2 and from December 1.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1953

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	29,000E	25,300E	22,100E	21,500E	39,100	38,200	34,300	34,500	27,800	36,900	37,000	--
2	28,900	25,200	22,000	22,000	39,500	37,800	35,100	34,500	27,800	37,200	37,000	--
3	28,600	25,100	21,900	22,700	39,500	36,300	35,100	34,200	27,800	37,300	36,300	--
4	28,500	25,000	21,800	23,300	38,700	35,500	35,500	33,500	27,800	37,600	35,900	--
5	28,300	25,000	21,600	24,000	38,300	35,500	36,200	33,500	28,400	38,800	35,900	--
6	28,200	24,900	21,500	25,000	37,900	35,200	36,200	33,500	28,400	40,400	35,800I	--
7	28,100	24,800	21,400	25,800	37,900	35,200	36,600	32,500	27,800	40,400	35,700I	--
8	28,000	24,500	21,300	26,800	37,900	33,700	37,000	32,500	27,800	40,400	35,600	--
9	27,900	24,300	21,200	27,500	37,500	34,800	37,300	32,500	28,400	40,400	33,500	--
10	27,800	24,200	21,100	28,300	37,500	34,800	38,100	32,500	27,800	40,800	33,500	--
11	27,700	24,100	21,000	29,200B	37,900	34,800	38,100	31,800	28,400	40,800	33,500	--
12	27,600	24,000	20,800	30,000	37,200	33,700	38,500	31,800	28,400	40,400	33,100	--
13	27,500	23,900	20,700	30,900	36,800	33,700	38,500	31,500	29,100	40,400	33,100	--
14	27,300	23,800	20,700	31,800	36,800	33,700	38,500	30,800	29,100	40,400	32,100	--
15	27,200	23,700	20,600	32,700	36,800	33,000	38,100	30,500	30,000	40,400	32,100	--
16	27,100	23,500	20,500	33,000	36,700	33,700	38,000	30,500	30,300	40,300	32,000	--
17	27,000	23,400	20,400	34,000	36,700	34,000	37,300	30,500	31,300	39,900	32,000	--
18	27,000	23,300	20,300	34,800E	36,700	33,000	37,200	29,800	31,300	39,500	32,000	--
19	26,900	23,200	20,200	35,300	37,100	33,700	37,300	29,800	31,300	38,700	32,000B	--
20	26,800	23,200	20,200	35,900	38,200I	34,400	37,200	29,500	31,600	38,600I	32,000	--
21	26,500	23,100	20,200	36,200	39,400	34,400	37,300	29,500	31,600	38,500I	31,600	--
22	26,500	23,000	20,200	36,200	40,200	34,000	37,600	29,500	31,600	38,400I	31,300	--
23	26,400	22,900	20,200	36,900	40,200	34,000	37,600	28,500	31,600	38,300	31,100	--
24	26,300	22,800	20,200	36,900	40,600	33,700	38,000	28,500	32,000	38,300	31,000	--
25	26,200	22,700	20,200	36,900	41,400	33,700	37,600	27,000	36,200	38,300	30,900	--
26	26,100	22,600	20,300	37,500	41,400	33,700	37,300	27,000	36,200	36,800	--	--
27	26,000	22,500	20,400	38,000	41,400	34,000	37,100	27,000	36,600	36,800	--	--
28	25,900	22,400	20,400	38,100	41,000	34,400	36,100	27,000	37,000	36,800I	--	--
29	25,700	--	20,600	38,300	39,800	34,400	36,100	27,900	37,000	36,800I	--	--
30	25,600	--	20,800	38,500	39,700	34,400	35,400	27,900	37,000	36,800	--	--
31	25,500	--	21,100	--	38,600	--	35,700	27,900	--	36,800	--	--
MEAN	27,200E	23,800E	20,800E	31,600E	38,700	34,500	37,000	30,600	30,900	38,800	--	--
MAX.	29,000E	25,300E	22,100E	38,500	41,400	38,200	38,500	34,500	37,000	40,800	--	--
MIN.	25,500E	22,400E	20,200E	21,500E	36,700	33,000	34,300	27,000	27,800	36,800	--	--

FOR THE YEAR 1953

FOR ALL THE YEARS RECORDED (1 Year)

MEAN --

MAXIMUM 41,400 cfs, May 25 to 27

MAXIMUM INSTANTANEOUS --

MINIMUM 20,200E cfs, March 19 to 25

MINIMUM INSTANTANEOUS --

34,100 cfs

52,900 cfs on August 18 and 19, 1952

--

18,200E cfs, April 11 to 13, 1952

--

NOTES:

B - Ice effect to April 11 and from November 19.

I - Interpolated.

E - Estimated to April 18.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1954

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	44,700	39,500	29,800	--	--	26,500	25,800
2	--	--	--	--	--	44,700	39,500	29,500	--	--	26,700	25,700
3	--	--	--	--	--	44,300	37,500	29,500	--	--	26,700	25,600
4	--	--	--	--	--	44,300	37,200	29,200	--	--	26,500	25,500
5	--	--	--	--	--	43,500I	37,200	29,200	--	--	26,400E	25,500
6	--	--	--	--	36,300	42,700I	37,200	29,200	--	--	26,300	25,200
7	--	--	--	--	--	41,900I	35,700	29,000	--	--	26,300	24,800
8	--	--	--	--	41,000	41,000*	35,200I	29,200	--	--	26,200	24,300
9	--	--	--	--	43,400	39,500	34,700I	28,900	--	--	26,100	24,000
10	--	--	--	--	--	39,100	34,200	28,900	--	26,600	26,300	23,800
11	--	--	--	--	--	40,700	34,200	28,700	--	27,400	26,300	23,700
12	--	--	--	--	--	40,700	34,200	28,300I	--	27,400	26,300	23,700
13	--	--	--	--	--	40,700	32,500	28,000	--	27,500I	26,400	23,700
14	--	--	--	--	44,600	37,200	31,800	27,900	--	27,500	26,400	23,800
15	--	--	--	--	44,600	37,200	32,200	27,800	--	27,500	26,500	23,900
16	--	--	--	--	44,500	35,300	32,400I	27,500	--	27,600	26,600	23,800
17	--	--	--	--	44,500	35,300	32,500	28,100	--	27,600	27,000E	23,700
18	--	--	--	--	44,500	35,300	32,500	28,200	--	27,800	27,300	23,600
19	--	--	--	--	44,500	35,300	32,500	28,400	--	27,600	27,600	23,500
20	--	--	--	--	46,500	35,300	32,500	28,200	--	27,800	27,700	23,400
21	--	--	--	--	46,500	36,800	32,500	28,100	--	27,900	27,200	23,200
22	--	--	--	--	46,100	38,300	32,500*	27,900	--	27,500	27,400B	23,000
23	--	--	--	--	46,100	38,300	31,800	28,000I	--	27,200	27,100	22,900
24	--	--	--	--	46,100	38,300	31,800I	28,100	--	27,300	26,900	22,700
25	--	--	--	--	46,100I	41,500	31,700I	28,100	--	27,300	26,500	22,600
26	--	--	--	--	46,100I	41,500	31,600I	27,500	--	26,900	26,500	22,300
27	--	--	--	--	46,100	40,700	31,500I	27,600	--	26,800	26,500	22,100
28	--	--	--	--	45,300	41,100	31,500	27,800	--	26,800	26,400	22,000
29	--	--	--	--	45,100I	41,100	31,100I	27,400	--	26,600	26,200	21,800
30	--	--	--	--	45,000I	41,100	30,700I	27,300	--	26,400	25,900	21,500
31	--	--	--	--	44,900	--	30,300I	27,000I	--	26,400	--	21,400
MEAN	--	--	--	--	--	39,900	33,600	28,300	--	--	26,600E	23,600
MAX.	--	--	--	--	--	44,700	39,500	29,800	--	--	27,700	25,800
MIN.	--	--	--	--	--	35,300	30,300I	27,000I	--	--	25,900	21,400

FOR THE YEAR 1954

MEAN --

MAXIMUM 46,500 cfs on May 20 and 21

MAXIMUM INSTANTANEOUS --

MINIMUM 21,400 cfs on December 31

MINIMUM INSTANTANEOUS --

FOR ALL THE YEARS RECORDED (1 Year)

34,100 cfs

52,900 cfs on August 18 and 19, 1952

--

18,200E cfs, April 11 to 13, 1952

--

NOTES:

* - Discharge measurement.

B - Ice effect from November 22

I - Interpolated.

E - Estimated November 5 to 17.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 115 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1955

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	21,000	16,900	13,100	11,200	28,000	36,100	31,700	25,400	20,000	23,300	27,200	28,200E
2	20,900	16,800	13,200	11,300	28,900B	36,300	31,700	25,400	20,100	23,700	27,500	28,000
3	20,500	16,900	12,900	11,200	29,200	34,800	31,800	25,300	20,100	23,800	28,400	27,700
4	20,400	16,600	12,800	11,300	29,200	36,700	31,300	25,100	20,200	24,000	29,000	27,300
5	20,200	16,300	12,700	11,200	29,200	36,700	31,500	25,000	21,200	24,200	29,400	27,000
6	20,100	16,300	12,600	11,300	29,100	36,700	30,000	24,000*	21,300	24,300	29,700	26,800
7	20,000	16,400	12,400	11,300	28,900	36,700	30,300	24,100	21,600	24,400	30,200	26,600
8	19,900	15,900	12,200	11,400	29,600I	36,700	30,400	23,400	21,600	24,500	30,400	26,300
9	19,800	15,800	12,000	11,300	30,300I	36,600	29,800	22,900	21,800	24,600	30,500	26,000
10	19,700	15,700	11,900	11,400	30,900	36,500	28,400	22,700	22,100	24,900	30,700	25,500
11	19,600	15,500	11,500*	11,500	31,200	35,200	28,500	22,400	22,100	25,100	30,800	25,300
12	19,500	15,300	11,500	11,600	31,800	35,400	28,400	22,300	22,100	25,500	30,900	25,000
13	19,300	15,100	11,600	11,500	31,800	35,500	28,400	22,200	22,100	25,700	31,000E	24,800
14	19,200	15,000	11,700	11,500	32,400	35,100	28,200	22,100	22,100	25,700	31,000	24,600
15	19,100	14,800	11,700	11,600	32,400	35,200	28,200	21,800	22,200	25,700	31,000B	24,300
16	18,900	14,600	11,800	11,700	32,400I	35,200	27,800	21,600	22,200	25,600	30,900	24,100
17	18,700	14,500	11,700	11,900	32,500	35,400	27,600	21,300	22,300	25,700	30,800	23,900
18	18,600	14,600	11,500	12,300	32,500	34,500	27,300	21,200	22,400	25,700	30,600	23,700
19	18,400	14,400	11,400	13,000	32,500I	33,300	26,900	21,000	22,500	25,500	30,500	23,500
20	18,300	14,400	11,400	13,800	32,400	33,200	26,900	20,900	22,700	25,100	30,300	23,300
21	18,300	14,600	11,400	14,500	32,700	33,500	26,300	20,900	22,800	24,900	30,200	23,100
22	18,000*	14,400	11,300	15,300	32,800	32,000	25,700	20,900	22,700	24,800	30,000	23,000
23	17,600	14,200	11,200	16,800	33,000	32,000	25,600	20,600	22,800	24,600	29,800	22,800
24	17,700	13,900	11,100	17,600	33,100	33,300	25,500	20,300	22,800	24,900	29,500	22,600
25	17,800	13,600	11,200	19,300	32,900	32,000	25,500	20,300	22,800	24,900	29,300	22,500
26	17,800	13,400	11,100	20,800	33,000I	32,000	25,400	20,200	22,900	25,100	29,100	22,200
27	17,600	13,100	11,100	22,600	33,200I	33,300	25,400	20,100	22,900	25,500	29,000	22,000
28	17,700	13,200	11,200	24,000	33,300	34,800	25,300	20,100	23,000	25,700	28,800	21,800
29	17,200	--	11,100	25,800	34,000I	31,100	25,300	20,100	23,100	26,300	28,700	21,700
30	17,100	--	11,200	27,000	34,700I	31,300	25,200	20,200	23,100	26,600	28,500	21,500
31	17,000	--	11,300	--	35,400I	--	25,200	20,000	--	26,800	--	21,300
MEAN	18,900	15,100	11,800	14,600	31,700	34,600	27,900	22,100	22,100	25,100	29,800E	24,400E
MAX.	21,000	16,900	13,200	27,000	35,400I	36,700	31,800	25,400	23,100	26,800	31,000E	28,200E
MIN.	17,000	13,100	11,100	11,200	28,000	31,100	25,200	20,000	20,000	23,300	27,200	21,300E
M.F.C.	.814	.649	.507	.627	1.367	1.490	1.203	.950	.950	1.080	1.283	1.051

FOR THE YEAR 1955

FOR ALL THE YEARS RECORDED (2 Years)

MEAN	23,200 cfs	28,700 cfs
MAXIMUM	36,700 cfs, June 4 to 8	52,900 cfs on August 18 and 19, 1952
MAXIMUM INSTANTANEOUS	--	--
MINIMUM	11,100 cfs on March 24, 26, 27 and 29	11,100 cfs on March 24, 26, 27 and 29, 1955
MINIMUM INSTANTANEOUS	--	--

NOTES:

* - Discharge measurement.

B - Ice effect to May 2 and from November 15.

I - Interpolated.

E - Estimated from November 13.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 115 and 119 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1956

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	21,100E	16,700	15,200	15,500E	27,200E	42,600	38,500	37,900	33,800	44,400	43,100	36,000E
2	20,800	16,600	15,200	16,100	27,300	43,000	38,100	39,900	34,500	44,600	42,500	35,300
3	20,600	16,500	15,300	17,000	27,400	44,600	38,100	40,100*	34,500	44,700	41,700	35,200
4	20,400	16,400	15,300	17,900	27,700	45,100	38,100	39,900	34,900	44,900	41,200	35,000
5	20,200	16,300	15,300	18,800	28,000	45,100	37,800	40,300	36,400	44,700	41,200	34,800
6	20,000	16,200	15,300	19,600	28,300	45,400	37,300	39,900	36,900	44,900	40,300	34,200
7	19,800	16,100	15,200	20,500	28,800	45,400	37,000	39,500	37,200	45,100	39,900	33,800
8	19,600	16,000	15,100	21,300	29,000	46,200	36,600	39,100	37,200	45,100	38,000	33,200
9	19,500	16,000	15,000	22,000	29,500	45,800	36,400	39,100	37,500	45,900	37,700	32,900
10	19,300	15,900	14,900	22,800	30,000B	46,200	35,800	38,700	37,200	45,900	37,500	32,500
11	19,200	15,900	14,900	23,600	30,300	45,500	35,500	39,100	37,800	45,500	37,300	32,200
12	19,000	15,800	15,000	24,000	30,700	47,200	35,200	39,100	38,300	46,800	37,600	32,000
13	18,700	15,800	15,000	24,500	31,000	46,800	35,200	39,100	39,100	48,000	38,100	31,800
14	18,600	15,800	15,000	24,800	31,400	47,200	35,200	39,100	39,500	49,300	38,500E	31,500
15	18,500	15,700	14,900	25,000	32,000	47,200	35,300	38,700	40,200	50,100	38,500	31,200
16	18,400	15,700	14,900	25,200	32,500	46,300	35,400	38,300	40,300	47,400	38,400	31,100
17	18,300	15,700	14,800	25,400	33,000	46,300	35,500	37,900	41,800	47,300	38,100	31,000
18	18,200	15,600	14,400	25,600	34,000	45,500	36,300	37,900	41,900	46,700	37,700	30,900
19	18,100	15,600	14,700	25,800	34,800	45,900	35,900	37,800	42,300	46,700	37,300	30,800
20	18,000E	15,600	14,700*	25,900	35,200E	45,100	35,900	37,500	42,300	46,700	37,000B	30,700
21	17,900*	15,500	14,700	26,000	36,200	44,400	36,700	37,500	42,300	46,600	36,900	30,500
22	17,800	15,400	14,600	26,200	36,600	44,400	36,700	37,200	41,900	46,400	36,800	30,500
23	17,600	15,400	14,600	26,300	37,700	44,400	36,700	37,100	43,500	46,200	36,700	30,500
24	17,400	15,300	14,500	26,400	38,200	44,000	36,700	35,700	44,300	46,000	36,600	30,500
25	17,300	15,300	14,400E	26,500	38,500	42,400	37,000	35,300	44,300	45,200	36,500	30,500
26	17,200	15,200	14,500	26,600	38,600	40,800	37,100	34,900	44,300	44,400	36,400	30,300
27	17,100	15,200	14,600	26,700	40,500	40,400	37,100	34,900	44,000	44,000	36,300	30,300
28	17,000	15,100	14,600	26,800	41,300	40,000	37,500	34,500	43,500	43,500	36,200	30,300
29	17,000	15,100	14,700	26,900	41,600	39,600	38,200	34,200	43,900	43,500	36,100	30,200
30	16,900	--	15,000	27,000	43,800	39,200	38,600	33,800	44,300	43,100	36,100	30,100
31	16,800	--	15,000	--	44,100	--	38,600	33,500	--	42,500	--	30,000E
MEAN	18,600E	15,800	14,900E	23,600E	33,700E	44,400	36,800	37,700	40,000	45,700	38,200E	31,900F
MAX.	21,100E	16,700	15,300	27,000E	44,100	47,200	38,600	40,300	44,300	50,100	43,100	36,000E
MIN.	16,800	15,100	14,400	15,500E	27,200E	39,200	35,200	33,500	33,800	42,500	36,100E	30,000E
M.F.C.	.584	.496	.467	.740	1.060	1.396	1.156	1.184	1.257	1.436	1.201	1.004

FOR THE YEAR 1956

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

31,800 cfs

29,700 cfs

MAXIMUM

50,100 cfs on October 15

52,900 cfs on August 18 and 19, 1952

MAXIMUM INSTANTANEOUS

--

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MINIMUM

14,400 cfs on March 18

11,100 cfs on March 24, 26, 27 and 29, 1955

MINIMUM INSTANTANEOUS

--

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NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 20.

E - Estimated to January 20, March 25 to May 20 and from November 14.

Stage discharge relation is extrapolated above 43,000 cfs and below 23,600 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 119 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1957

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	29,700	21,800	18,700	16,300	27,300E	34,500	47,400	46,400	39,700	36,700	31,900	36,000
2	29,300	21,700	18,700	16,300	28,500B	36,100	48,300	45,900	39,700	36,300	32,200	36,000
3	28,600	21,300	18,600	16,200	29,500	35,700	49,700	45,600I	39,700	36,300	32,200	36,000
4	28,000	21,200	18,400	16,000	30,000	35,700*	50,700	45,300	39,700	35,500	32,200	36,000
5	28,600	21,000	18,300	15,900	30,800E	36,800*	51,700	44,900I	38,100	34,700	32,600	36,000
6	28,600*	21,600	18,600	16,000	31,500	36,500	53,200	44,500	37,300	34,700	32,200	35,900
7	28,100	21,600	18,300	15,900	32,400	35,300	51,700	43,600	36,100	34,700	32,900	35,900
8	28,000	21,900	17,900	15,400	32,900	35,100I	53,800	43,100	36,100	34,400	34,200	35,500
9	27,900	21,900	17,800	15,300	33,400	34,900	54,400	43,100	35,700	34,700	31,500	35,300
10	27,700	21,600	17,900	15,100	33,600	35,700	54,400	43,100	35,700	34,400	30,800	35,100
11	27,500	21,300	17,500	15,000	34,400	35,600I	53,800	43,100	35,300	34,700	33,400	35,000
12	27,100	21,200	17,500	15,100	34,500	35,600	53,800	42,700	35,300	34,700	33,700	34,800
13	26,400	21,300	17,300	15,000	36,500	36,900	53,200	42,200	34,900	34,400	32,600	34,100
14	26,000	21,000	17,300	14,800	36,800	37,300	51,700	42,200	34,500	34,400	32,600	33,900
15	25,400	20,900	17,300	14,700	37,100	37,700	53,800	41,800	34,900	34,400	33,400	33,600
16	25,200	20,800	17,300	14,600	34,400	38,400	53,800	42,200	35,300	34,000	32,800	33,200
17	24,800	20,700	17,000	14,500	34,500	38,800	52,700	41,800	35,300	34,000	32,800	33,100
18	24,800	20,100	16,800	14,500	34,400	38,900	51,700	41,400	36,100	34,000	32,300	33,000
19	24,500	20,000	16,800*	14,400	34,400	39,700	51,700	41,400	36,900	34,000	32,200	33,000
20	24,000	20,100	16,800	14,600	34,500	41,000	51,200	41,400	37,300	33,600	32,500	33,000
21	24,000	20,000	16,900	14,900	34,100	38,900	51,700	41,400	37,300	34,000	32,900B	32,900
22	23,500	19,900	16,700	15,300	33,600	35,600	51,700	40,900*	36,500	34,000	33,600	32,800
23	23,200	19,800	16,700	15,600	33,800	38,900	50,700	40,500	36,900	33,200	34,400	32,500
24	23,000	19,700	16,700	16,300	32,400	46,900	50,200	41,400	36,900	33,200	35,000	32,200
25	23,300	19,400	16,600	17,000	32,800	47,100	49,700	41,400	36,900	33,200	35,200	32,000
26	23,500	19,100	16,600	18,800	33,600	47,200I	48,800	41,000	36,900	32,400	35,500	31,800
27	23,000	19,000	16,600	20,000	33,800	47,300I	48,800	40,500	36,900	32,100	35,800	31,300
28	22,500	18,800	16,500	22,000E	34,000	47,400	48,800	40,500	36,900	31,700	35,900	31,000
29	22,300	--	16,400	24,100	34,200	48,800	47,800	39,700	36,900	31,700	36,000	30,800
30	22,000	--	16,600	25,900	34,500	46,400	46,900	39,700	36,900	32,100	36,000	30,500
31	22,000	--	16,400	--	34,400	--	47,400	39,700	--	32,100	--	30,200
MEAN	25,600	20,700	17,300	16,500	33,300E	39,400	51,100	42,300	36,800	34,000	33,400	33,600
MAX.	29,700	21,900	18,700	25,900E	37,100	48,800	54,400	46,400	39,700	36,700	36,000	36,000
MIN.	22,000	18,800	16,400	14,400	27,300E	34,500	46,900	39,700	34,500	31,700	30,800	30,200
M.F.C.	.796	.643	.540	.514	1.037	1.226	1.593	1.318	1.145	1.059	1.039	1.047

FOR THE YEAR 1957

FOR ALL THE YEARS RECORDED (4 Years)

MEAN 32,100 cfs

MAXIMUM 54,400 cfs on July 9 and 10

MAXIMUM INSTANTANEOUS --

MINIMUM 14,400 cfs on April 19

MINIMUM INSTANTANEOUS --

30,300 cfs

54,400 cfs on July 9 and 10, 1957

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11,100 cfs on March 24, 26, 27 and 29, 1955

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NOTES:

* - Discharge measurement.
 B - Ice effect to May 2 and from November 21.
 I - Interpolated.
 E - Estimated April 28 to May 5.
 Stage discharge relation is extrapolated above 41,000 cfs and below 24,000 cfs.
 Accuracy of records: periods without effect of ice, good; those with ice effect, fair.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 119 and 126 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	30,000	24,200	20,600	18,000	28,000	37,300	42,400	41,700	40,800	43,600I	38,300	33,200
2	29,800	23,900	20,600	17,900	28,500	37,300	42,500	41,500I	41,200	43,400I	38,200	32,900
3	29,500	23,900	20,500	17,800	28,700	37,600	42,800	41,200I	40,800	43,200I	38,200	32,500
4	29,200	23,600	20,300	17,800	29,000	37,900	43,000	41,000	41,400	43,000I	39,000	32,000
5	29,000	23,500	20,100	17,700	29,100	38,100	42,800	40,600	41,700	42,900I	39,100	31,800
6	28,900	23,400	20,000	17,600	29,000	38,200	42,800	40,200	42,200	42,800I	39,000	31,200
7	28,900	23,100	19,900	17,500	30,200	38,200	42,800	39,800	42,400	42,500	39,000	30,600
8	28,500	22,800	19,800	17,400	30,700	38,500	42,400	39,200	42,600	42,900I	38,900	30,000
9	28,100	22,800	19,700	17,300	29,700	39,000	42,400I	38,500	43,100	43,300I	38,900	29,900
10	28,100	22,800	19,700	17,100	30,300	39,200	42,400I	38,300	43,300	43,700	38,400	29,600
11	27,700	22,800	19,600	17,000	31,300	39,400	42,400	37,900	43,800	43,900	38,400	29,200
12	27,300	22,800	19,500	17,000	31,500	39,800	42,400	37,400	43,900	43,900	37,600	29,000
13	26,900	22,700	19,400	17,100	32,500	40,000	42,400	36,900	43,700	43,700I	37,400	28,900
14	26,500	22,700	19,300	17,300	32,500	40,200	42,400	36,700	43,800	43,500I	36,400	28,500
15	26,100	22,600	19,200	17,600	32,500	40,400	42,200	36,900	43,700	43,400	36,400	28,100
16	25,600	22,600	19,100	18,000	32,500	40,600	42,700	37,100	43,700	43,300	36,200	27,900
17	25,200	22,500	19,000	18,800	32,800	40,600	43,100	37,300	43,800	43,300E	36,500	27,600
18	24,800*	21,800	18,900	19,300	33,300	40,900	42,500*	37,300	43,800	43,200	36,800E	27,200
19	24,500	21,800	18,900	20,100	32,600	41,300	42,600	37,200	43,700	43,100	36,900	26,900
20	24,200	21,400	18,800	20,900	32,700	41,500	42,800	37,300	43,800	43,000	36,900	26,500
21	24,100	21,100	18,800	21,900	33,100	41,900	43,000	37,300	43,900	42,800	36,900	26,300
22	24,400	20,900	18,700	22,700	34,800	42,100	42,900	37,400	43,800	42,600	36,800B	26,100
23	24,400	20,900	18,700	23,300	35,000	42,100	42,900	37,700	43,700	42,500	36,600	25,900
24	24,400	20,800	18,600	24,000	35,000	42,400	42,800	38,100	43,700	42,300	36,200	25,500
25	24,300	20,700	18,600	24,800B	35,700	42,100	42,700	38,200	43,800	42,100	35,900	25,200
26	24,300	20,700	18,500	25,200	35,900	42,000	42,600	38,300	43,700	41,900	35,500	25,000
27	24,300	20,600	18,500	25,900	36,100	42,100	42,600	38,200	43,600	41,400	35,000	24,900
28	24,200	20,600	18,400*	26,500	36,400	42,300	42,200	38,700	43,800	40,800	34,600	24,500
29	24,200	--	18,300	27,000	36,800	42,300	41,700	38,600	43,800	40,200	34,100	24,200
30	24,200	--	18,200	27,800	37,200	42,400	41,700	38,900	43,800	40,000	33,900E	24,100
31	24,200	--	18,100	--	37,400	--	41,700	39,800	--	39,200E	--	23,900
MEAN	26,300	22,300	19,200	20,300	32,600	40,200	42,500	38,600	43,200	42,600E	37,100E	28,000
MAX.	30,000	24,200	20,600	27,800	37,400	42,400	43,100	41,700	43,900	43,900	39,100	33,200
MIN.	24,100	20,600	18,100	17,000	28,000	37,300	41,700	36,700	40,800	39,200E	33,900E	23,900
M.F.C.	.802	.679	.586	.618	.993	1.226	1.296	1.175	1.315	1.299	1.129	.854

FOR THE YEAR 1958

FOR ALL THE YEARS RECORDED (5 Years)

MEAN

32,800 cfs

30,800 cfs

MAXIMUM

43,900 cfs on September 12 and 21 and
October 11 and 12

54,400 cfs on July 9 and 10, 1957

MAXIMUM INSTANTANEOUS

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MINIMUM

17,000 cfs on April 11 and 12

11,100 cfs on March 24, 26, 27 and 29, 1955

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to April 25 and from November 22.

I - Interpolated.

E - Estimated October 17 to 31 and November 18 to 30.

Stage discharge relation is extrapolated above 50,800 cfs and below 22,700 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 126 and 129 (Station No. 3BC-1).

RUPERT

43

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	23,900	19,200	16,600	14,700	15,100	53,500	47,900	41,400	36,600	30,300	42,900	40,000
2	23,800	18,900	16,600	14,700	15,300	53,200	47,400	41,400	36,100	30,300	42,700	39,400
3	23,400	18,500	16,900	14,700	15,600	52,800	47,000	41,100I	35,100	30,600	43,200I	38,900
4	23,100	18,200	17,000	14,600	15,900	52,600	46,400	40,700I	34,500	29,900	43,600	38,200
5	23,000	17,900	16,900	14,600	16,800	52,400	46,600	40,400I	34,500	30,700	44,200	37,900
6	22,800	17,800	16,700	14,600	18,400	52,800	46,300	40,000	33,000	30,600	44,900I	37,200
7	22,500	17,700	16,300	14,600	22,900	52,500	46,000	40,100	33,700	30,800	45,600	36,800
8	22,300	17,400	16,100	14,500	27,000	52,500	45,400	40,100	34,400	30,500	45,900	36,400
9	22,100	17,500	15,900	14,500	31,600	52,600	45,400	40,300	34,000	30,300	46,000	36,000
10	22,000	17,500	16,100	14,500	32,100	52,700	45,200	40,500	33,600	30,100	46,200B	35,700
11	21,900	17,600	16,100	14,400	33,000B	52,500	43,500	40,500	33,600I	30,700	46,500	35,100
12	21,800	17,600	15,800*	14,400	37,800	52,800	43,500	40,700	33,600	31,200	46,800	34,900
13	21,500	17,600	16,000	14,400	51,300	52,900	42,800	42,000	30,800	30,900	46,800	34,300
14	21,300	17,500	16,000	14,400	54,500	53,100	42,700I	41,800	30,700	30,500	46,800	34,000
15	21,100	17,200	15,800	14,400	56,800	53,000	42,500	42,000	30,400	33,300	46,800	33,600
16	21,000	17,300	16,000	14,300	57,900	53,200	41,000	42,000	30,300	32,500	46,500	33,100
17	20,900	17,500	16,000	14,300	55,900	53,300	41,100	42,000	30,500	31,800	46,200	32,800
18	20,700	17,500	15,800	14,300	55,700	53,400	41,100	42,200	30,800	31,100	46,000	32,200
19	20,600	17,400	15,600	14,300	55,400	52,900	41,300I	42,000	31,000	31,200	45,900	32,000
20	20,500	17,400	15,500	14,300	55,000	52,600	41,400	42,000	30,300	31,500	45,500	31,500
21	20,200	17,300	15,500	14,300	54,600	50,700*	40,900I	40,500	31,000	31,400	45,200	31,100
22	20,200	17,300	15,500	14,400	51,900	50,300	40,500	38,800	30,600	31,500	44,900	30,800
23	20,200	17,300	15,300	14,500	54,200	50,100	40,400I	38,800	30,400	31,400	44,500	30,300
24	20,100*	17,200	15,100	14,500	53,900	49,700	40,400	38,600I	30,400I	33,400	44,000	30,000
25	19,900	17,300	15,000	14,500	53,200	49,400	40,400*	38,500	30,300I	36,700	43,800	29,800
26	19,700	17,300	15,000	14,500	53,600	49,100	40,400	38,300	30,200I	36,900	43,000	29,300
27	19,500	17,300	14,900	14,700	53,800	49,300	40,200	38,000	30,100I	38,500	42,200	29,000
28	19,300	16,500	14,800	14,700	54,500	49,000	40,500	37,800	30,100*	39,200	41,900	28,700
29	19,300	--	14,800	14,800	54,100	48,800	40,800	37,400	30,300	39,800	41,000	28,200
30	19,200	--	14,700	14,900	53,500	48,500	41,200	37,200	30,200	41,400	40,300	28,000
31	19,300	--	14,700	--	53,000	--	41,300I	37,200	--	42,600	--	27,700
MEAN	21,200	17,600	15,800	14,500	42,400	51,700	43,000	40,100	32,000	33,000	44,700	33,300
MAX.	23,900	19,200	17,000	14,900	57,900	53,500	47,900	42,200	36,600	42,600	46,800	40,000
MIN.	19,200	16,500	14,700	14,300	15,100	48,500	40,200	37,200	30,100I	29,900	40,300	27,700
M.F.C.	.651	.540	.484	.446	1.303	1.590	1.320	1.234	.984	1.013	1.373	1.024

FOR THE YEAR 1959

FOR ALL THE YEARS RECORDED (6 Years)

MEAN 32,500 cfs
 MAXIMUM 57,900 cfs on May 16
 MAXIMUM INSTANTANEOUS --
 MINIMUM 14,300 cfs, April 16 to 21
 MINIMUM INSTANTANEOUS --

31,100 cfs
 57,900 cfs on May 16, 1959
 --
 11,100 cfs on March 24, 26, 27 and 29, 1955
 --

NOTES:

* - Discharge measurement.
 B - Ice effect to May 11 and from November 10.
 I - Interpolated.
 Stage discharge relation is extrapolated above 50,800 cfs and below 22,700 cfs.
 Accuracy of records: periods without effect of ice, good; those with ice effect, fair.
 Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 129 and 133 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	27,800	21,400	17,400	15,600	16,400	57,600	31,900E	32,000E	36,200I	33,100	35,700	34,800
2	27,500	21,400	17,900	15,500	17,000	55,600	31,500	32,300	36,300I	33,100	36,100	34,300
3	27,200	21,400	18,100	15,400	17,900	54,700	31,200	32,800	36,400I	38,500	36,400	34,000
4	26,900	20,900	18,000	15,400	18,000	50,800	31,000	33,100	36,500I	34,300	36,600	33,800
5	26,600	20,800	18,000	15,400	20,900	50,800	30,800	33,400	36,600I	34,700	36,200	33,300
6	26,300	20,600	17,900	15,400	22,400	50,100	30,500	33,800	36,700I	34,600	36,100	33,000
7	26,000	20,100	17,100	15,400	24,000	49,500	30,200	34,100	36,800	35,100	36,300	32,800
8	25,700	19,900	17,500	15,400	25,900	49,500	30,100	34,500	36,900	35,000	36,100	32,300
9	25,300	19,700	17,800	15,300	28,000	48,200	30,000	34,900	36,900	35,300	35,500	32,000
10	25,100	19,100	17,800	15,300	30,000	46,600	30,000	35,000	36,900	35,600	35,700	31,800
11	24,900	19,900	17,200	15,300	32,500	45,400	29,900	35,100	37,700	36,000	35,800E	31,300
12	24,700	19,400	17,400	15,300	36,000	44,700*	29,800	35,200	36,300	36,400	36,100	31,000
13	24,500	19,300	16,300	15,300	39,500B	42,600	29,700	35,300	36,100	36,100	36,300	30,600
14	24,300	18,600	16,300	15,400	42,800	41,300	29,600	35,300	34,600	36,500	36,500	30,200
15	24,000	18,600	16,500	15,400	47,300	41,000	29,500	35,300E	34,600	36,100	36,600B	30,000
16	23,900	18,800	16,300	15,400	52,700	40,700	29,500	35,400	34,500	35,300	36,800	29,800
17	23,700	18,900	16,400	15,400	56,200	40,300	29,500	35,600	34,200	35,700	36,800	29,500
18	23,600	19,100	16,400	15,400	60,700	39,800	29,500E	35,700	34,000	35,800	36,800	29,200
19	23,400	18,800	16,300	15,400	64,100	39,600	29,600*	35,900*	33,800	35,300	36,700E	28,900
20	23,200	19,200	16,200	15,400	64,800	38,600	29,600E	36,000	33,700	35,500	36,600	28,800
21	23,100	19,100	15,900	15,400	64,300	38,200	29,700	36,100	34,300	36,300	36,300	28,300
22	22,900	18,400	15,700*	15,500	63,900	37,100	29,800	36,100	34,500	36,100	36,200	28,000
23	22,700	18,600	16,000	15,500	64,300	36,500	29,900	36,100	34,300	35,900	36,100	27,800
24	22,600	18,900	16,000	15,600	63,500	36,400	30,000	35,800	34,000	35,700	36,000	27,500
25	22,300	18,900	15,900	15,600	63,200	35,500	30,200	35,800	34,300	35,700	35,900	27,200
26	22,100	18,800	15,800	15,700	62,900	35,000	30,500	36,100	34,400	36,100	35,800	27,000
27	22,000	18,800*	15,800	15,700	62,400	32,800	30,800	36,000	34,100	35,500	35,500	26,800
28	22,000*	18,100	15,700	15,800	61,500	32,700	31,000	35,800	33,700	35,700	35,200	26,500
29	21,400	17,500	15,700	15,800	59,500	32,500	31,200	36,000	33,400	35,100	35,100	26,400
30	21,400	--	15,700	15,900	58,900	32,300	31,500	36,100	33,700	35,600	35,000	26,200
31	21,400	--	15,600	--	57,800	--	31,800	36,100	--	35,300	--	26,100
MEAN	24,100	19,400	16,700	15,500	45,100	42,500	30,300E	35,100E	35,200	35,500	36,100E	30,000
MAX.	27,800	21,400	18,100	15,900	64,800	57,600	31,900E	36,100	37,700	38,500	36,800F	34,800
MIN.	21,400	17,500	15,600	15,300	16,400	32,300	29,500E	32,000E	33,400	33,100	35,000	26,100
M.F.C.	.791	.636	.546	.507	1.479	1.394	.993	1.149	1.154	1.164	1.183	.982

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (7 Years)

MEAN

30,500 cfs

31,000 cfs

MAXIMUM

64,800 cfs on May 20

64,800 cfs on May 20, 1960

MAXIMUM INSTANTANEOUS

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MINIMUM

15,300 cfs, April 9 to 13

11,100 cfs on March 24, 26, 27 and 29, 1955

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to May 13 and from November 15.

I - Interpolated.

E - Estimated July 1 to 18, July 20 to August 15 and November 11 to 19.

Stage discharge relation is extrapolated above 50,800 cfs and below 22,700 cfs.

Accuracy of records: fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	26,100	21,900	17,100	15,800	17,500	34,600	26,100	23,500	22,500	23,000E	29,200E	23,800E
2	25,800	21,800	17,000	15,900	17,800	35,000	26,100	23,500	22,500	23,100	27,800	23,700
3	25,600	21,600	16,900	16,000	18,100	33,800	26,100	23,400	22,300	23,200	25,300	23,600
4	25,400	21,500	16,800	16,000	19,000	33,700	25,400	23,400	22,500	23,300	25,000	23,600
5	25,200	21,200	16,700	15,900	20,500	33,500	25,400	23,300	22,700	23,400	25,900	23,500
6	25,100	21,100	16,700	15,800	22,000	32,800	25,400	22,700	22,600	22,100	28,600	23,500
7	25,000	21,000	16,600	15,800	24,500B	32,800	25,400	22,700	22,600*	22,100	28,200	23,400
8	25,000	20,800	16,600	15,800	27,000	31,900	25,400	22,200	22,500	22,200	29,200	23,400
9	24,900	20,500	16,600	15,800	29,000	31,500	25,400	22,100	22,600	22,300	28,800	23,400
10	24,700	20,300	16,600	15,800	30,900	29,800	25,100	22,100	22,700	22,000	29,100	23,300
11	24,500	20,100	16,500	15,700	32,000	28,800	24,700	22,100	22,700	22,200	29,500	23,200E
12	24,300	19,900	16,400	15,700	32,500	28,800	23,700	22,100	22,600	22,100	29,200	23,400
13	24,100	19,800	16,300	15,700	32,700	28,800	23,700	22,000	22,700	22,200	29,400	23,200
14	24,000	19,600	16,200	15,800	32,300	28,800	23,700	22,000	22,800	22,400	29,700	23,200
15	23,900	19,500	16,200	15,800	32,600	29,000*	23,700	21,900	22,800	22,200	29,300	23,200
16	23,800	19,300	16,000	16,000	32,700	28,900	23,400	21,900	22,800	22,400	25,300	23,100
17	23,700	19,000	15,800	16,000	34,300	28,400	23,400	21,800	22,700	22,500	24,900	23,000
18	23,600	18,800	15,600	16,000	35,600	28,600	23,500	21,700	22,800	22,600	24,600B	23,000
19	23,500*	18,600	15,200	16,000	34,700	28,600	23,400	21,700	22,700	22,800	24,500	22,900
20	23,300	18,400	15,000	16,100	36,500	28,600	23,400	22,200	22,700	22,900	24,400	22,900
21	23,200	18,200	15,500	16,100	36,800	28,900	23,500	22,700	22,600	22,900	24,200	22,800
22	23,000	18,000	15,700*	16,100	37,300	29,200	23,500	22,700	22,700	22,700	24,100	22,700
23	22,900	17,800	15,800	16,200	37,700	29,200	23,500	22,700	22,700	22,700	24,100	22,600
24	22,800	17,600	15,800	16,300	37,000	28,800	23,500	22,700	22,900	22,800	24,000	22,500
25	22,700	17,400	15,700	16,400	36,400	27,300	23,500	22,500	22,900	30,100	24,000	22,400
26	22,600	17,800*	15,700	16,500	36,300	27,300	23,600	22,600	23,000	30,500	23,900	22,300
27	22,600	17,500	15,700	16,700	36,100	27,300	23,800*	22,500	23,100	29,400	23,900	22,200
28	22,400	17,200	15,700	16,800	36,100	27,200	23,800	22,600	23,100	31,300	23,800	22,100
29	22,300	--	15,600	17,000	36,200	27,300	23,900	22,400	23,100	30,400	23,800	22,000
30	22,200	--	15,700	17,300	36,100	27,200	23,900	22,600	23,300	28,600	23,800	22,000
31	22,000	--	15,800	--	36,100	--	23,800	22,400	--	28,300	--	21,900
MEAN	23,900	19,500	16,100	16,100	31,100	29,900	24,300	22,500	22,700	24,500E	26,300E	23,000E
MAX.	26,100	21,900	17,100	17,300	37,700	35,000	26,100	23,500	23,300	31,300E	29,700E	23,800E
MIN.	22,000	17,200	15,000	15,700	17,500	27,200	23,400	21,700	22,300	22,000E	23,800E	21,900
M.F.C.	1.022	.835	.690	.689	1.332	1.280	1.040	.961	.974	1.049	1.126	.983

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (8 Years)

MEAN	23,300 cfs	30,100 cfs
MAXIMUM	37,700 cfs on May 23	64,800 cfs on May 20, 1960
MAXIMUM INSTANTANEOUS	--	--
MINIMUM	15,000 cfs on March 20	11,100 cfs on March 24, 26, 27 and 29, 1955
MINIMUM INSTANTANEOUS	--	--

NOTES:

* - Discharge measurement.

B - Ice effect to May 7 and from November 18.

E - Estimated October 1 to December 11.

Stage discharge relation is extrapolated above 50,800 cfs and below 22,700 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	21,800	18,100	15,000	13,300	13,500	49,600	29,800	27,800I	25,600E	33,700E	30,700E	26,100E
2	21,800	18,000	14,700	13,500	13,600	49,600	30,500	27,600I	25,800	33,700	30,400	25,900
3	21,700	17,900	14,700	13,500	13,800	49,400	30,400	27,400I	25,900	33,700	30,100	25,600
4	21,700	17,800	14,800	13,600	14,900	49,400	30,200	27,200I	26,000	33,600	30,000	25,300
5	21,500	17,600	14,700	13,700	17,000	49,200	29,500	27,000I	26,800	33,500	30,000	25,100
6	21,300	17,500	14,700	13,600	19,500	47,900	29,100	26,800I	27,000	33,300	30,000	24,900
7	21,200	17,400	14,900	13,600	23,000	46,400	29,000	26,600I	27,900	33,400	30,000	24,700
8	21,100	17,300	15,000	13,600	26,900B	45,000	29,000	26,400I	28,500	32,900	29,900	24,300
9	21,000	17,200	15,100	13,600	29,900	44,600	28,200	26,200I	29,100	32,800	29,900	24,100
10	20,900	17,100	15,000	13,600	31,500	44,300I	28,400	26,100*	30,000	32,500	29,900	23,900
11	20,800	17,000	15,000	13,500	32,800	44,100	28,400	25,400	30,500	32,300	29,900	23,700
12	20,600	16,900	15,200	13,600	33,700	42,300	28,400	25,400	31,100	32,100	29,800	23,300
13	20,400	16,800	15,000	13,600	35,700	41,900	28,500	25,500	32,000	32,200	29,600	23,000
14	20,200	16,700	14,800	13,600	36,400	41,000	28,500	25,200	32,500	32,500	29,500	22,800
15	20,100	16,600	14,600	13,600	37,400	40,200	28,600	24,900	33,000	32,500	29,200B	22,600
16	20,000	16,500	14,300	13,400	41,700	36,200	28,900	24,600	33,600	32,000	29,000	22,400
17	20,000	16,400	14,200	13,500	42,800	36,400	28,600	24,400	34,000	32,200	28,900	22,100
18	19,900	16,300	14,000	13,300	44,000E	36,200	27,900	24,900	34,200	32,700	28,800	22,000
19	19,700*	16,200	13,800	13,200	44,200	36,200	27,900	25,200	34,600	32,500	28,500	21,700
20	19,500	16,100	13,700	13,400	44,600	36,100	27,900I	25,800	34,800	32,500	28,200	21,500
21	19,400	16,000	13,600	13,400	44,900E	36,100	27,900I	25,700	34,800	32,700	28,000	21,100
22	19,300	16,000*	13,500	13,400	44,900	35,900	27,900I	25,200	34,400	32,700	27,900	20,900
23	19,200	15,800	13,400	13,400	44,800	35,000I	27,800I	25,500	34,000	32,900	27,800	20,500
24	19,000	15,500	13,400	13,400	43,500	34,100I	27,800I	25,200	33,700	32,200	27,500	20,300
25	18,900	15,200	13,400	13,400	43,100	33,200I	27,800I	25,200	34,100	32,400	27,300	20,000
26	18,800	15,200	13,300	13,400	44,900	32,300I	27,800	25,200	34,200	32,400	27,100	19,900
27	18,700	15,000	13,200	13,400	45,400	31,400I	27,800	25,200	34,300	32,200	27,000	19,600
28	18,600	15,000	13,300	13,400	46,000	30,500	27,800	25,200	34,000	32,100	26,800	19,400
29	18,500	--	13,200	13,400	47,500	30,500	27,900I	25,300E	34,000	32,100	26,500	19,200
30	18,400	--	13,200*	13,500	49,500*	29,800	27,900I	25,300	33,700	31,500	26,300	19,000
31	18,300	--	13,400	--	48,700	--	28,000	25,400	--	31,500	--	18,900
MEAN	20,100	16,600	14,200	13,500	35,500	39,800	28,500	25,800	31,500E	32,600E	28,800E	22,400E
MAX.	21,800	18,100	15,200	13,700	49,500*	49,600	30,500	27,800I	34,800E	33,700E	30,700E	26,100E
MIN.	18,300	15,000	13,200	13,200	13,500	29,800	27,800I	24,400	25,600E	31,500E	26,300E	18,900E
M.F.C.	.777	.643	.549	.522	1.374	1.542	1.104	.998	1.218	1.263	1.116	.866

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (9 Years)

MEAN

25,800 cfs

29,600 cfs

MAXIMUM

49,600 cfs on June 1 and 2

64,800 cfs on May 20, 1960

MAXIMUM INSTANTANEOUS

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MINIMUM

13,200 cfs on March 27, 30 and April 19.

11,100 cfs on March 24, 26, 27 and 29, 1955

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to May 8 and from November 15.

I - Interpolated.

E - Estimated May 18 to 21 and from August 29.

Stage discharge relation is extrapolated above 50,800 cfs and below 22,700 cfs

Accuracy of records: fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3BC-1).

RUPERT

AT OUTLET OF NEMISCAU LAKE

STATION NUMBER 081001

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1950

GAUGE - MANUAL

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	18,600E	13,800	12,300	12,400	19,000E	26,700	28,200	--	--	--	--	--
2	18,300	13,800	12,300	12,300	20,900	27,600	26,700	--	--	--	--	--
3	18,100	13,700	12,300	12,200	21,600	28,400	27,100	--	--	--	--	--
4	17,800	13,600	12,300	12,200	22,100	29,000	26,700	--	--	--	--	--
5	17,600	13,600	12,400	12,100	22,800E	29,800	28,000	--	--	--	--	--
6	17,400	13,500	12,500	12,100	23,100B	30,400	28,400	--	--	--	--	--
7	17,100	13,400	12,500	12,100	23,200	31,000	29,200	--	--	--	--	--
8	17,000	13,300	12,400	12,000	23,300	31,500	29,600	--	--	--	--	--
9	16,800	13,200	12,400	12,100	23,500I	30,700	30,400	--	--	--	--	--
10	16,600	13,100	12,400	12,100	23,400I	31,800	29,400	--	--	--	--	--
11	16,500	13,100	12,300*	12,000	23,400I	32,000	28,800	--	--	--	--	--
12	16,300	13,000	12,300	12,000	23,300I	30,700	28,400	--	--	--	--	--
13	16,200	12,900	12,300	12,000	23,300	30,000	29,000	--	--	--	--	--
14	16,000	12,800	12,300	12,000	23,500	29,000	28,600	--	--	--	--	--
15	15,800	12,800	12,300	12,000	23,600	29,400	28,700	--	--	--	--	--
16	15,600	12,700	12,300	12,000	23,600	30,000	28,400	--	--	--	--	--
17	15,400	12,600	12,400	12,000	23,300	30,400	29,200	--	--	--	--	--
18	15,300	12,600	12,400	12,000	23,700	29,900	29,000	--	--	--	--	--
19	15,100	12,600	12,500	12,000	23,600	31,500	28,800	--	--	--	--	--
20	15,000	12,600*	12,500	12,000	23,300	30,500	29,900	--	--	--	--	--
21	14,900	12,500	12,200	11,900	23,400	31,800	29,700	--	--	--	--	--
22	14,700E	12,500	12,500	11,900	24,200	30,000	28,700	--	--	--	--	--
23	14,600	12,400	12,300	11,900	24,600	29,400	28,900	--	--	--	--	--
24	14,500	12,300	12,300	11,900	24,700	29,700	29,700	--	--	--	--	--
25	14,300*	12,300	12,300	12,000	24,900	29,400	29,400	--	--	--	--	--
26	14,200	12,300	12,200	12,300	24,900	28,400	29,700	--	--	--	--	--
27	14,100	12,400	12,400	12,800	25,400	29,000	30,000	--	--	--	--	--
28	14,000	12,300	12,500	13,300	26,200	28,200	30,000	--	--	--	--	--
29	14,000	--	12,400	14,300	26,900	28,000	30,300	--	--	--	--	--
30	13,900	--	12,200	16,500	26,200	28,000	30,400	--	--	--	--	--
31	13,800	--	12,400	--	25,500	--	30,300	--	--	--	--	--
MEAN	15,800E	12,900	12,400	12,300	23,700E	29,700	29,000	--	--	--	--	--
MAX.	18,600F	13,800	12,500	16,500	26,900	32,000	30,400	--	--	--	--	--
MIN.	13,800	12,300	12,200	11,900	19,000E	26,700	26,700	--	--	--	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (9 Years)

MEAN

--

29,600 cfs

MAXIMUM

32,000 cfs on June 11

64,800 cfs on May 20, 1960

MAXIMUM INSTANTANEOUS

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MINIMUM

11,900 cfs, April 21 to 24

11,100 cfs on March 24, 26, 27 and 29, 1955

MINIMUM INSTANTANEOUS

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NOTES:

* - Discharge measurement.

B - Ice effect to May 6.

I - Interpolated.

E - Estimated to January 22 and from May 1 to 5.

Stage discharge relation is extrapolated above 50,800 cfs and below 22,700 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Manual gauge read once daily.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3BC-1).

This station was replaced on August 1, 1963 by Station No. 081002 located 7.1 miles downstream.

RUPERT

7.1 MI. DOWNSTREAM FROM NEMISCAU LAKE

STATION NUMBER 081002

DRAINAGE AREA - 15700 SQ. MI.

STATION IN OPERATION SINCE 1963

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	30,600	27,800	24,400	19,800	17,200E
2	--	--	--	--	--	--	--	30,500	27,800	24,400	19,800	18,000
3	--	--	--	--	--	--	--	30,200I	27,800	23,600	19,300	18,800
4	--	--	--	--	--	--	--	30,600I	27,800	23,400	18,900	19,000
5	--	--	--	--	--	--	--	30,800*	27,400	23,600	19,100	19,600
6	--	--	--	--	--	--	--	31,000I	27,400	23,000	19,100	19,900
7	--	--	--	--	--	--	--	29,500I	27,100	22,600	19,100	20,100
8	--	--	--	--	--	--	--	29,100I	26,800	22,600	19,100	20,300
9	--	--	--	--	--	--	--	29,500	26,600	22,600	19,100	20,400
10	--	--	--	--	--	--	--	29,300I	26,400*	22,600	19,100	20,500
11	--	--	--	--	--	--	--	29,700I	26,200	22,000	19,000B	20,600
12	--	--	--	--	--	--	--	29,500I	25,900	21,800	18,800	20,800
13	--	--	--	--	--	--	--	29,300I	25,900	21,800	18,700	20,900
14	--	--	--	--	--	--	--	29,300I	25,800	21,600	18,600	21,000
15	--	--	--	--	--	--	--	28,900I	25,800	21,100	18,500	21,000
16	--	--	--	--	--	--	--	28,900I	25,600	20,900	18,400	21,100
17	--	--	--	--	--	--	--	29,300I	25,300	20,900	18,200	21,100
18	--	--	--	--	--	--	--	29,200I	25,300	20,800	18,100	21,100
19	--	--	--	--	--	--	--	29,300I	25,000	20,600	18,000	21,000
20	--	--	--	--	--	--	--	28,900I	24,800	20,500	17,800	21,000
21	--	--	--	--	--	--	--	28,600	24,800	20,100	17,600	21,000
22	--	--	--	--	--	--	--	28,600	25,200	20,100	17,600	21,000
23	--	--	--	--	--	--	--	28,600	25,200	20,100	17,500	20,900
24	--	--	--	--	--	--	--	28,600	25,200	19,700	17,400	20,900
25	--	--	--	--	--	--	--	28,700	25,300	19,700	16,700	20,800
26	--	--	--	--	--	--	--	28,700	24,800	19,700	16,000	20,600
27	--	--	--	--	--	--	--	28,200	24,400	19,700	15,900	20,500
28	--	--	--	--	--	--	--	28,200	24,400	19,700	16,000	20,400
29	--	--	--	--	--	--	--	28,200	24,400	19,800	16,300	20,200
30	--	--	--	--	--	--	--	28,200	24,400	19,700	16,800	20,000
31	--	--	--	--	--	--	--	28,300	--	19,600	--	19,900
MEAN	--	--	--	--	--	--	--	29,200	25,900	21,400	18,100	20,300E
MAX.	--	--	--	--	--	--	--	31,000I	27,800	24,400	19,800	21,100E
MIN.	--	--	--	--	--	--	--	28,200	24,400	19,600	15,900	17,200E

FOR THE YEAR 1963

MEAN

--

MAXIMUM

31,000I cfs on August 6

MAXIMUM INSTANTANEOUS

--

MINIMUM

15,900 cfs on November 27

MINIMUM INSTANTANEOUS

15,900 cfs on November 27 at noon

NOTES:

* - Discharge measurement.

B - Ice effect from November 11.

I - Interpolated.

E - Estimated from December 1.

Stage discharge relation is extrapolated above 50,000 cfs and below 26,500 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

This station replaces Station No. 081001 located at outlet of Nemiscau Lake.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1949

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	77.36
4	--	--	--	--	--	--	--	--	--	--	78.47	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	78.27	77.36
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	78.92	78.17	77.26
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	78.72	--	77.16
13	--	--	--	--	--	--	--	--	--	--	--	77.16
14	--	--	--	--	--	--	--	--	--	--	78.07	77.16
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	78.72	--	--
18	--	--	--	--	--	--	--	--	--	--	77.97	77.06
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	78.67	77.87	--
22	--	--	--	--	--	--	--	--	--	--	--	77.01
23	--	--	--	--	--	--	--	--	--	--	77.87	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	77.77	76.91
26	--	--	--	--	--	--	--	--	--	78.42	--	--
27	--	--	--	--	--	--	--	--	--	--	77.67	--
28	--	--	--	--	--	--	--	--	--	78.37	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	77.59	--
31	--	--	--	--	--	--	--	--	--	78.37	--	76.86
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1949

FOR ALL THE YEARS RECORDED

MAXIMUM

78.92 feet on October 10

78.92 feet on October 10, 1949

MINIMUM

76.86 feet on December 31

76.86 feet on December 31, 1949

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1950

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	76.85	76.05	75.34	75.54	77.98	--	--	78.97	77.74	77.68	--
2	--	--	--	--	--	78.25	--	90.02	78.97	--	77.74	77.56
3	--	--	--	--	--	78.53	80.48	--	78.92	77.71	77.80	--
4	--	--	--	--	--	78.63	--	--	78.87	--	--	77.56
5	76.86	76.55	--	--	--	--	80.68	90.02	78.79	77.60	77.81	--
6	--	--	--	--	--	78.83	--	--	78.73	--	77.78	77.57
7	--	--	--	--	--	--	80.78	--	78.67	77.58	77.74	--
8	--	--	--	--	--	78.98	--	79.87	78.62	--	77.63	--
9	--	--	--	--	--	--	--	--	--	77.56	--	77.54
10	--	--	75.95	--	--	79.23	80.68	--	78.59	--	77.68	--
11	--	--	--	--	75.64	--	--	79.62	78.57	77.55	--	77.50
12	--	--	--	--	--	79.43	--	--	--	--	77.50	--
13	--	--	--	--	--	79.53	80.58	--	78.49	77.59	--	--
14	--	--	--	--	--	--	--	--	--	77.64	77.48	77.46
15	--	76.35	--	75.34	--	79.73	--	79.57	78.36	--	--	--
16	76.76	--	--	--	75.94	--	--	--	78.32	77.68	77.48	77.40
17	--	--	75.75	--	--	80.18	--	--	--	77.64	--	--
18	--	--	--	--	--	--	80.58	--	78.13	77.63	--	--
19	--	76.15	--	--	76.04	--	--	79.42	78.11	77.69	77.51	77.36
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	80.28	--	--	78.12	77.74	--	77.33
22	--	--	--	--	76.24	--	--	--	--	--	77.51	--
23	--	--	75.65	--	--	--	--	79.22	78.05	77.74	--	77.27
24	76.71	--	--	--	--	--	80.58	--	--	77.72	--	--
25	76.71	--	--	--	76.89	--	--	--	77.94	77.68	77.54	--
26	--	--	--	--	77.04	80.38	--	--	--	--	--	77.14
27	--	--	--	--	77.12	--	--	79.12	77.85	77.70	--	--
28	--	76.05	--	--	77.29	--	--	--	--	--	77.56	--
29	--	--	--	--	77.66	--	--	--	77.75	77.68	--	77.07
30	76.66	--	--	75.44	77.79	80.48	--	--	77.74	77.67	77.57	--
31	--	--	75.45	--	77.89	--	80.53	79.02	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1950

MAXIMUM

80.78 feet on July 7

MINIMUM

75.34 feet on April 15

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

75.34 feet on April 15, 1950

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1951

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	77.25	--	--	77.65
2	--	76.47	--	--	--	78.16	--	--	--	--	--	--
3	77.07	--	75.89	75.27	--	--	--	--	--	--	77.65	--
4	--	--	--	--	--	--	--	77.56	--	--	--	--
5	77.06	--	--	--	76.66	--	--	--	--	--	--	--
6	--	76.43	--	--	--	--	--	--	--	77.45	--	--
7	--	--	--	75.37	--	--	77.66	--	--	--	--	--
8	77.00	--	--	--	--	--	--	--	76.95	--	--	77.55
9	--	--	--	--	--	78.16	--	--	--	--	--	--
10	76.90	76.30	75.72	--	--	--	--	--	--	--	77.70	--
11	--	--	--	--	--	--	--	77.56	--	--	--	--
12	--	--	--	--	77.11	--	--	--	--	--	--	--
13	76.89	--	--	--	--	--	--	--	--	77.50	--	--
14	--	--	--	75.57	--	--	77.66	--	--	77.50	--	--
15	--	--	--	--	--	--	--	--	76.90	--	--	77.50
16	76.78	--	--	--	--	78.16	--	--	--	--	--	--
17	--	76.07	75.52	--	--	--	--	--	--	--	77.93	--
18	--	--	--	--	--	--	--	77.46	--	--	--	--
19	--	--	--	--	77.36	--	--	--	--	--	--	--
20	76.64	--	--	--	--	--	--	--	--	77.55	--	--
21	--	--	--	75.92	--	--	77.31	--	--	--	--	--
22	--	--	--	--	--	--	--	--	76.90	--	--	77.40
23	76.58	--	--	--	--	78.21	--	--	--	--	--	--
24	--	76.02	75.39	--	--	--	--	--	--	--	77.80	--
25	--	--	--	--	--	--	--	77.46	--	--	--	--
26	--	--	--	--	77.91	--	--	--	--	--	--	--
27	76.52	--	--	--	--	--	--	--	--	77.60	--	--
28	--	75.97	--	76.37	--	--	77.41	--	--	--	--	--
29	--	--	--	--	--	--	--	--	77.05	--	--	77.32
30	--	--	--	--	--	77.96	--	--	--	--	--	--
31	76.50	--	75.28	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1951

MAXIMUM

78.21 feet on June 23

MINIMUM

75.27 feet on April 3

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

75.27 feet on April 3, 1951

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1952

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	75.99	--	--	--	--	79.59	--	--	79.04	--
2	--	76.74	--	--	--	--	79.23	--	--	--	--	--
3	--	--	--	--	75.29	--	--	--	79.63	--	--	77.78
4	--	--	--	--	--	--	--	--	--	79.63	--	--
5	77.24	--	--	75.39	--	--	79.23	--	--	--	79.03	--
6	--	--	--	--	--	--	--	79.58	79.53	--	--	77.73
7	--	--	--	--	--	78.38	--	--	--	--	--	--
8	--	--	75.89	--	--	--	--	--	--	--	78.83	--
9	--	76.54	--	--	--	--	79.33	79.55	79.53	--	--	--
10	--	--	--	--	75.59	--	--	--	--	79.60	--	77.58
11	--	--	--	--	--	--	--	--	--	79.58	78.53	--
12	77.14	--	--	75.29	--	--	79.39	--	--	--	--	--
13	--	--	--	--	--	--	--	79.53	79.48	--	--	77.83
14	--	--	--	--	--	78.73	--	--	--	--	78.33	--
15	--	--	75.84	--	--	--	79.54	--	--	--	--	--
16	--	76.44	--	--	--	--	--	79.63	--	--	--	--
17	--	--	--	--	76.39	--	--	--	--	--	--	77.68
18	--	--	--	--	--	78.78	--	--	--	79.33	--	--
19	76.99	--	--	75.17	--	--	79.49	--	--	--	--	--
20	--	--	--	--	--	--	--	79.63	--	--	--	77.63
21	--	--	--	--	--	79.03	--	--	--	--	78.13	--
22	--	--	75.69	--	--	--	--	--	79.68	--	--	--
23	--	76.19	--	--	--	--	79.55	79.53	--	--	--	77.55
24	--	--	--	--	77.14	--	--	--	--	--	--	--
25	--	--	--	--	--	79.11	--	--	--	79.28	--	--
26	76.84	--	--	75.19	--	--	79.63	--	--	--	78.03	77.68
27	--	--	--	--	--	--	--	79.33	--	--	--	--
28	--	--	--	--	--	79.12	--	--	--	--	--	--
29	--	--	75.54	--	--	--	79.65	--	--	79.18	--	77.53
30	--	--	--	--	--	--	--	79.33	79.70	--	77.93	--
31	--	--	--	--	77.84	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1952

MAXIMUM

79.70 feet on September 30

MINIMUM

75.17 feet on April 19

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

75.17 feet on April 19, 1952

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

53

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1953

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	78.47	--	78.67	--	--	78.36	--
2	--	77.03	--	--	76.87	--	--	--	78.02	78.67	--	77.81
3	--	--	--	--	--	--	--	--	--	--	--	--
4	77.48	--	--	--	--	78.52	78.87	--	--	--	78.31	--
5	--	76.93	76.13	--	76.92	--	--	--	78.05	--	--	77.81
6	--	--	--	--	--	78.62	--	--	--	--	--	--
7	77.33	76.83	--	--	77.02	--	--	--	--	78.87	78.31	--
8	--	--	--	--	--	--	--	78.47	--	--	--	--
9	--	--	--	--	77.07	--	--	--	--	78.67	--	77.81
10	77.33	--	--	--	--	78.77	--	--	78.17	--	--	--
11	--	76.73	--	76.23	--	--	78.97	--	--	78.77	78.11	--
12	--	--	76.03	--	--	--	--	--	--	--	--	77.76
13	--	--	--	--	77.12	78.82	--	--	--	--	--	--
14	77.23	76.63	--	--	77.27	--	--	--	--	--	78.01	--
15	--	--	--	--	--	--	--	78.37	78.12	--	--	--
16	--	--	75.93	--	77.37	--	--	--	--	--	--	77.71
17	77.23	76.38	--	--	--	--	78.92	--	--	--	--	--
18	--	--	--	76.48	77.47	78.82	--	--	78.27	78.57	77.91	--
19	--	--	--	--	--	--	--	--	--	--	--	77.61
20	77.13	76.43	76.03	--	--	--	--	--	--	78.52	--	--
21	--	--	--	76.58	--	--	--	--	--	--	78.01	--
22	--	--	--	--	--	--	--	78.12	78.47	--	--	77.56
23	--	--	--	--	77.87	--	--	--	--	--	--	--
24	77.03	--	76.03	--	--	78.77	--	--	--	78.72	--	--
25	--	--	--	76.68	--	--	78.67	--	78.32	--	77.81	--
26	--	--	--	--	78.17	--	--	--	--	--	--	77.56
27	--	--	--	--	--	78.72	--	77.97	--	78.47	--	--
28	77.03	76.23	76.03	--	78.27	--	--	--	--	--	77.91	--
29	--	--	--	76.83	78.37	--	--	78.02	--	--	--	--
30	--	--	--	--	78.42	78.72	78.62	--	78.42	--	--	--
31	--	--	--	--	--	--	--	--	--	78.37	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1953

FOR ALL THE YEARS RECORDED

MAXIMUM

78.97 feet on July 11

80.78 feet on July 7, 1950

MINIMUM

75.93 feet on March 16

75.17 feet on April 19, 1952

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1954

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	76.71	76.01	75.51	75.36	78.56	78.76	78.36	77.72	77.43	77.24	76.95
2	--	--	--	--	--	--	--	--	--	77.43	--	--
3	--	76.71	75.96	75.41	--	78.61	78.76	--	--	--	--	--
4	--	--	--	--	--	--	--	78.31	77.62	--	77.24	76.85
5	--	--	--	--	75.71	78.76	--	--	--	--	--	--
6	--	76.61	75.96	--	--	--	--	--	--	77.48	77.14	--
7	--	--	--	75.41	--	78.81	78.61	78.26	--	--	--	--
8	77.21	--	--	--	76.01	--	--	--	77.57	--	--	76.84
9	--	--	--	--	--	--	--	--	--	77.38	--	--
10	--	76.56	75.91	75.36	76.26	78.86	78.66	--	--	--	76.94	--
11	--	--	--	--	76.41	--	--	78.11	77.52	--	--	76.80
12	--	--	--	--	76.51	78.86	--	--	--	--	--	--
13	--	76.41	75.81	--	--	--	--	--	--	77.28	76.94	--
14	77.11	--	--	75.33	76.76	--	78.61	77.91	--	--	--	76.65
15	--	--	--	--	76.86	--	--	--	77.42	--	--	--
16	--	--	--	--	--	78.81	--	--	--	77.33	--	--
17	--	--	75.76	75.33	77.21	--	78.56	--	77.32	--	76.98	--
18	--	76.31	--	--	--	--	--	77.86	--	--	--	76.60
19	--	--	--	--	77.41	78.81	--	--	--	--	--	--
20	--	76.26	75.71	--	--	--	--	--	--	77.38	76.98	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	75.31	77.61	--	78.57	77.81	--	--	--	--
23	76.81	--	--	--	77.71	--	--	--	77.32	77.43	--	76.50
24	--	76.21	75.61	--	77.86	78.86	--	--	--	--	76.97	--
25	--	--	--	--	--	--	--	77.82	77.38	77.43	--	--
26	--	--	--	--	--	78.91	--	--	--	--	--	76.45
27	76.81	76.16	75.56	--	78.21	--	--	--	--	77.34	76.95	--
28	--	76.16	--	75.36	--	--	78.41	77.77	--	--	--	--
29	--	--	--	--	--	--	--	--	77.43	--	--	--
30	76.81	--	--	75.36	--	78.76	--	--	--	77.24	76.95	--
31	--	--	75.51	--	78.51	--	78.36	77.72	--	77.24	--	76.41
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1954

MAXIMUM

78.91 feet on June 26

MINIMUM

75.31 feet on April 21

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

75.17 feet on April 19, 1952

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1955

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	76.41	75.97	--	75.09	--	78.15	78.61	77.82	--	--	77.30	77.77
2	--	--	75.42	--	--	--	--	--	--	--	--	--
3	--	75.92	--	--	75.29	--	--	77.77	--	76.85	--	77.82
4	--	--	--	--	--	78.31	--	--	--	--	--	--
5	76.36	75.87	--	--	75.55	--	--	--	76.96	--	77.59	--
6	--	--	--	74.94	--	--	78.47	77.72	--	76.95	--	--
7	--	--	--	--	75.72	--	--	77.54	--	--	77.64	77.67
8	--	--	--	--	--	78.51	--	--	--	--	--	--
9	--	75.72	--	74.94	--	--	78.37	--	--	--	77.69	--
10	--	--	--	--	76.10	--	--	77.47	76.86	77.05	--	77.58
11	--	--	75.38	--	--	78.56	--	--	--	--	--	--
12	--	75.69	--	--	76.30	--	--	--	--	--	77.74	--
13	--	--	--	74.89	76.35	--	78.32	77.42	--	--	--	--
14	--	--	--	--	76.45	--	--	--	--	77.10	--	77.47
15	76.16	--	--	--	--	78.61	--	--	--	--	--	--
16	--	--	--	74.89	76.60	--	78.12	--	--	--	77.89	--
17	--	75.67	--	--	76.75	--	--	77.32	--	--	--	77.42
18	--	--	--	--	76.80	78.66	--	--	76.86	--	--	--
19	76.16	75.62	--	--	--	--	78.12	--	--	--	77.94	--
20	--	--	--	74.84	77.00	--	--	77.32	--	77.10	--	--
21	--	--	--	--	--	--	78.12	--	--	--	--	77.27
22	76.11	--	75.33	--	--	--	--	--	--	--	--	--
23	--	--	--	--	77.20	--	--	--	--	--	77.89	--
24	--	75.57	--	--	77.35	--	--	77.22	--	--	--	77.27
25	--	--	--	--	--	78.56	--	--	76.81	--	--	--
26	76.10	75.52	75.08	--	--	--	--	--	--	--	77.84	--
27	--	--	--	74.89	77.50	--	77.97	77.07	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	77.17
29	75.99	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	75.04	78.05	78.61	--	77.02	76.81	--	77.79	--
31	75.97	--	75.08	--	--	--	77.82	--	--	77.30	--	77.02
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1955

FOR ALL THE YEARS RECORDED

MAXIMUM

78.66 feet on June 18

80.78 feet on July 7, 1950

MINIMUM

74.84 feet on April 20

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1956

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	76.45	75.89	75.42	--	76.51	--	79.17	79.01	79.71	79.71	78.45
2	76.96	--	--	--	74.98	76.55	--	79.17	--	--	--	--
3	--	--	75.79	--	--	--	--	--	--	--	79.66	--
4	--	76.35	--	75.42	--	76.65	79.24	79.17	--	--	79.56	--
5	--	--	--	--	74.98	76.75	--	79.18	79.16	--	--	78.30
6	--	--	--	--	--	--	--	--	--	79.81	--	--
7	--	--	75.74	75.37	--	--	--	--	--	--	79.41	--
8	--	76.30	--	--	74.98	77.30	--	79.15	79.21	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	75.74	--	--	77.55	--	--	--	79.96	79.36	78.15
11	76.76	76.20	--	75.17	--	77.60	79.24	79.12	--	--	--	--
12	--	--	--	--	--	--	--	--	79.26	--	--	--
13	--	--	--	--	--	--	--	--	--	79.96	--	--
14	--	--	75.71	75.17	--	--	79.19	--	--	--	79.11	--
15	--	76.15	--	--	75.16	--	--	79.07	79.28	--	--	77.95
16	--	--	--	--	75.21	78.40	--	--	--	--	--	--
17	--	--	--	75.14	--	--	--	--	--	80.50	79.06	--
18	76.71	76.15	75.64	--	--	--	79.19	78.97	79.31	--	--	77.90
19	--	--	--	--	75.30	--	--	--	--	--	78.96	--
20	--	--	--	--	--	78.70	--	--	--	79.81	--	--
21	76.66	--	75.59	--	--	--	79.19	--	--	--	--	--
22	--	76.00	--	75.12	--	--	--	78.87	79.46	--	78.91	77.85
23	--	--	--	--	75.57	78.90	--	--	--	--	--	--
24	--	--	75.57	--	--	--	--	--	--	79.96	--	--
25	76.66	75.95	--	75.12	--	--	79.19	78.92	--	--	--	--
26	--	--	--	--	75.59	--	--	--	79.61	--	--	--
27	--	--	--	--	--	79.10	--	--	--	79.86	--	--
28	76.56	--	75.49	--	75.76	--	79.19	--	--	--	78.56	--
29	--	75.90	--	--	--	--	--	--	--	--	--	77.60
30	--	--	--	75.00	75.91	79.25	--	--	79.61	--	78.46	--
31	76.48	--	75.44	--	76.01	--	79.19	79.02	--	79.71	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1956

MAXIMUM

80.50 feet on October 17

MINIMUM

74.98 feet on May 2, 5 and 8

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1957

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	76.60	75.94	--	--	--	--	80.13	79.23	78.98	--	--
2	--	76.55	--	--	--	--	79.53	--	--	--	78.38	--
3	77.50	--	--	--	--	77.38	--	--	--	79.03	--	--
4	--	--	--	75.19	--	--	--	79.93	79.13	--	--	--
5	77.40	--	--	--	--	--	--	--	--	--	78.33	--
6	--	76.55	75.84	--	--	77.53	79.63	--	--	78.98	--	--
7	--	--	--	--	--	--	--	79.83	79.08	78.93	78.23	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	77.25	76.50	75.79	--	75.43	--	--	--	--	--	--	--
10	--	--	--	75.29	--	77.83	79.73	79.73	79.03	78.83	78.13	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	78.13	--	--	--	--	--	--
13	--	76.45	75.77	--	75.68	--	--	79.58	78.95	78.78	--	--
14	--	--	--	--	--	78.23	80.08	--	--	--	78.08	--
15	--	--	--	--	--	--	--	--	--	78.73	--	--
16	--	--	75.69	--	--	--	--	79.53	78.93	--	--	--
17	--	--	--	--	--	--	--	--	--	--	78.03	77.47
18	--	--	--	--	--	78.68	80.23	--	--	78.73	--	--
19	76.90	76.15	--	--	--	--	--	79.53	78.93	--	78.03	--
20	--	--	75.54	75.34	75.83	--	--	--	--	--	--	77.47
21	--	--	--	--	--	78.98	--	--	--	78.68	78.03	--
22	--	--	--	--	--	--	80.28	79.38	78.93	--	--	--
23	--	76.10	--	--	76.08	--	--	--	--	--	77.98	77.47
24	--	--	--	--	--	79.23	--	--	--	78.63	--	--
25	--	--	75.48	--	76.23	--	--	79.38	78.91	--	77.98	--
26	76.80	76.00	--	--	--	--	80.33	--	--	78.58	--	77.47
27	--	--	--	--	--	79.43	--	--	--	--	--	--
28	--	75.95	--	--	--	--	--	79.23	78.88	78.53	77.92	--
29	--	--	--	--	--	79.53	--	--	--	--	--	77.42
30	--	--	75.42	--	76.78	--	80.33	--	--	--	77.87	--
31	76.60	--	--	--	--	--	--	--	78.93	78.43	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1957

MAXIMUM

80.33 feet on July 26 and 30

MINIMUM

75.19 feet on April 4

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1958

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	76.92	76.47	--	--	--	--	--	--	--	79.86	--	--
2	--	--	--	--	--	--	--	--	--	--	79.23	--
3	--	--	76.31	75.56	75.66	78.01	80.00	79.50	79.47	--	--	77.99
4	76.92	--	--	--	--	--	--	--	--	--	--	--
5	--	76.47	--	--	--	--	--	--	--	79.42	79.01	--
6	--	--	--	--	--	--	--	79.45	--	--	--	--
7	76.92	--	--	--	--	78.31	80.10	--	79.77	--	--	77.89
8	--	--	76.16	75.51	--	--	--	--	--	79.48	--	--
9	--	76.47	--	--	75.81	--	--	--	--	--	78.89	--
10	76.87	--	--	--	--	--	80.15	79.44	79.90	--	--	77.79
11	--	--	76.06	--	--	78.55	--	79.50	--	--	--	--
12	--	--	--	75.41	--	--	--	--	--	79.74	78.69	--
13	76.87	76.57	--	--	76.01	--	80.05	--	79.74	--	--	--
14	--	--	76.01	--	--	78.80	--	79.45	--	--	--	77.64
15	--	--	--	75.46	--	--	--	--	--	79.71	--	--
16	76.97	--	--	--	--	79.00	--	79.46	--	--	78.69	--
17	--	76.47	--	--	76.31	--	79.95	--	79.84	--	--	77.40
18	--	--	75.91	75.51	--	79.25	--	--	--	--	--	--
19	76.82	--	--	--	--	--	--	--	--	79.52	78.44	--
20	--	76.42	--	--	76.61	79.40	79.85	79.20	--	--	--	--
21	--	--	--	--	--	--	--	--	79.68	--	--	77.38
22	--	--	--	--	76.81	79.55	--	--	--	79.34	--	--
23	76.82	--	75.81	--	--	--	79.75	--	--	--	78.43	--
24	--	76.27	--	75.56	--	79.70	--	--	79.71	--	--	77.37
25	--	--	--	--	77.21	--	79.70	79.10	--	--	--	--
26	76.82	--	75.66	--	--	79.80	--	--	--	79.32	78.29	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	76.22	--	--	77.51	--	79.60	79.20	79.65	--	--	77.35
29	76.82	--	75.61	--	--	79.85	--	--	--	79.31	--	--
30	--	--	--	75.56	--	--	--	79.47	--	--	78.19	--
31	--	--	--	--	77.86	--	79.50	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1958

MAXIMUM

80.15 feet on July 10

MINIMUM

75.41 feet on April 12

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1959

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	75.27	--	--	--	--	79.06	--	--	--
2	--	--	75.80	--	--	--	--	79.52	--	78.51	78.90	--
3	77.09	--	--	--	74.89	78.49	79.84	--	--	--	--	--
4	--	76.41	--	--	--	--	--	--	--	--	--	--
5	--	--	--	75.32	--	78.80	--	--	78.89	78.53	78.94	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	76.79	--	--	--	75.07	--	--	79.50	--	--	78.94	--
8	--	--	--	--	--	--	79.77	--	--	--	--	--
9	--	--	--	--	--	79.01	--	79.47	--	78.36	--	78.37
10	--	--	--	--	75.27	--	--	--	--	--	--	--
11	--	76.33	75.63	--	--	--	79.74	--	78.81	--	--	--
12	--	--	--	75.12	75.54	--	--	79.42	--	--	--	78.24
13	--	--	--	--	--	--	--	--	--	--	78.88	--
14	--	--	--	--	--	79.56	--	--	78.69	78.45	--	--
15	--	76.26	75.56	--	76.14	--	79.64	--	--	--	--	--
16	--	--	--	--	--	79.74	--	--	78.61	--	--	78.14
17	--	--	--	--	--	--	79.56	--	--	78.48	--	--
18	--	76.18	--	--	76.51	--	79.54	79.39	78.53	--	78.85	--
19	76.72	--	--	--	76.63	--	--	--	--	--	--	--
20	--	--	75.47	--	76.77	--	--	--	--	--	--	--
21	--	--	--	--	76.90	--	79.46	79.33	--	--	--	77.94
22	--	--	--	75.04	76.96	--	--	--	78.49	78.50	--	--
23	--	--	--	--	77.02	--	--	--	--	--	--	--
24	--	--	--	--	77.08	79.78	--	--	--	--	78.70	--
25	--	76.00	--	--	--	--	--	79.09	--	78.60	--	--
26	--	--	75.38	74.97	77.43	--	--	79.05	--	--	--	--
27	76.55	--	--	--	--	79.79	79.45	--	78.43	--	78.68	77.84
28	--	--	--	--	77.59	--	--	--	--	78.82	--	--
29	--	--	--	--	77.87	79.82	--	--	--	--	--	--
30	--	--	--	--	--	79.83	--	--	--	--	--	77.67
31	--	--	75.27	--	78.20	--	79.52	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1959

FOR ALL THE YEARS RECORDED

MAXIMUM

79.84 feet on July 3

80.78 feet on July 7, 1950

MINIMUM

74.89 feet on May 3

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	75.37	--	--	--	--	--	--	78.09	--
2	--	--	76.08	--	--	--	78.22	--	79.21	--	--	--
3	77.54	76.66	--	--	75.00	--	--	78.45	--	78.43	78.04	77.87
4	--	--	--	--	--	--	--	--	--	78.43	--	--
5	--	--	--	75.27	75.01	77.84	78.34	--	79.19	--	77.99	--
6	--	--	--	--	--	--	--	--	--	--	--	77.85
7	77.51	76.63	75.96	--	--	--	--	78.49	--	--	--	--
8	--	--	--	75.22	--	78.06	--	--	79.08	78.33	--	--
9	--	--	--	--	75.41	--	78.31	--	--	--	--	--
10	77.34	76.58	--	--	--	78.08	--	--	--	78.28	78.04	--
11	--	--	--	--	--	--	--	78.88	78.88	--	--	77.71
12	--	--	75.69	75.21	--	--	--	--	--	--	--	--
13	--	--	--	--	76.11	--	--	--	--	78.33	--	--
14	--	--	--	--	--	--	78.31	79.09	--	--	--	--
15	77.16	76.46	--	--	--	78.08	--	--	78.83	--	77.89	77.55
16	--	--	75.55	--	76.14	78.08	--	79.11	--	78.23	--	--
17	--	76.38	--	--	--	--	--	--	--	--	77.94	--
18	--	--	75.52	--	76.51	78.31	--	--	--	78.18	--	--
19	--	--	--	--	--	--	78.18	--	78.78	--	77.99	77.39
20	77.03	--	--	75.14	--	--	--	79.19	--	78.18	--	--
21	--	76.30	75.50	--	--	--	--	--	--	--	--	--
22	77.00	--	--	--	--	78.36	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	78.73	--	77.94	--
24	--	--	--	--	77.16	78.36	--	79.23	--	78.19	--	--
25	--	76.26	75.45	--	--	--	78.18	--	--	78.24	--	77.27
26	76.90	--	--	74.97	--	--	--	--	--	--	77.94	--
27	--	--	--	--	77.38	78.30	78.30	--	78.63	--	--	--
28	--	--	--	--	--	--	--	--	--	78.09	--	--
29	--	76.20	--	--	77.48	--	--	79.09	--	--	77.90	--
30	76.76	--	75.39	--	--	--	--	--	78.56	78.09	--	77.21
31	--	--	--	--	77.71	--	78.35	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED

MAXIMUM

79.23 feet on August 24

80.78 feet on July 7, 1950

MINIMUM

74.97 feet on April 26

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	77.19	76.48	75.92	75.28	75.13	--	77.49	77.29	77.17	77.34	77.15	--
2	--	--	--	--	--	--	77.48	77.29	77.14	77.30	77.19	--
3	--	--	--	--	--	77.24	77.51	77.24	77.14	77.42	77.16	--
4	--	--	--	75.23	75.23	--	77.50	77.19	77.08	77.43	77.10	--
5	--	--	--	--	--	--	77.48	77.19	77.14	77.39	77.08	--
6	77.10	--	--	--	--	--	77.51	--	77.14	77.29	77.12	--
7	--	--	--	75.18	--	77.31	77.49	77.19	77.14	77.34	77.06	--
8	--	76.31	75.82	--	75.48	77.35	77.49	77.19	77.08	77.34	77.18	--
9	--	--	--	--	--	--	--	77.14	77.08	77.38	77.15	--
10	--	--	--	75.10	75.58	--	77.54	77.14	77.08	77.45	77.08	--
11	--	--	--	--	75.63	--	77.39	77.19	77.18	--	77.05	--
12	--	--	--	--	75.66	77.32	77.44	77.19	77.11	--	77.11	--
13	--	--	--	--	--	--	77.39	77.09	77.12	77.38	77.13	--
14	--	--	--	--	--	77.35	77.39	77.09	77.11	77.49	77.10	--
15	76.86	76.16	--	--	--	--	77.39	77.09	77.20	77.41	77.07	--
16	--	--	75.61	--	76.19	77.34	77.39	77.14	77.20	77.54	77.08	--
17	--	--	--	--	--	--	77.39	77.14	77.19	77.47	77.10	--
18	--	--	--	--	--	77.33	77.34	77.14	77.17	--	77.07	--
19	--	--	--	--	--	--	77.34	--	77.19	77.38	--	--
20	--	--	--	75.08	76.54	--	77.34	77.14	77.19	77.41	--	--
21	--	76.12	--	--	--	77.46	77.29	77.14	77.19	77.38	77.01	--
22	76.70	--	75.52	--	76.79	77.48	77.29	77.14	77.19	77.39	--	--
23	--	--	--	--	76.81	77.55	77.29	77.14	77.19	77.34	--	--
24	--	--	--	75.18	--	--	77.29	--	77.24	77.30	77.02	--
25	--	--	--	--	76.89	--	77.64	77.14	77.27	77.33	--	--
26	--	75.97	--	--	76.94	77.48	77.27	77.14	77.34	77.28	--	--
27	--	--	--	--	76.97	77.47	77.27	77.14	--	77.32	--	--
28	--	75.92	--	--	--	--	77.19	77.19	--	77.17	77.00	--
29	--	--	--	--	77.04	77.44	77.19	--	--	77.11	--	--
30	--	--	--	75.13	--	77.49	--	77.19	77.39	77.20	76.89	--
31	76.48	--	75.27	--	--	--	77.29	77.19	--	77.10	--	--
MFAN	--	--	--	--	--	--	77.39	--	--	77.35	--	--
MAX.	--	--	--	--	--	--	77.64	--	--	77.54	--	--
MIN.	--	--	--	--	--	--	77.19	--	--	77.10	--	--

FOR THE YEAR 1961

MAXIMUM

77.64 feet on July 25

MINIMUM

75.08 feet on April 20

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

74.84 feet on April 20, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet.
 Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	75.60	75.06I	74.71I	77.23I	77.98I	77.35	77.12	77.70	77.24	76.34
2	--	75.89	75.59I	75.05	74.75	77.35I	77.95I	77.35	77.10I	77.70	77.14	76.29
3	--	75.89	75.57I	74.99	74.75	77.50	77.90I	77.43	77.09	77.69I	77.14	76.24
4	--	75.92I	75.56I	74.97	74.76	77.55	77.85	77.46	77.09	77.69	77.24	76.24
5	--	75.94	75.55	74.95	74.77	77.65	77.79	77.47I	77.08	77.69I	77.24	76.24
6	--	75.89	75.55	74.95	74.83I	77.75	77.75	77.48	77.08	77.69I	77.24	76.24
7	--	75.89	75.49	74.89	74.88	77.80I	77.78	77.55	77.08	77.69	76.99	76.24
8	--	75.87	75.47	74.89I	74.89	77.85	77.78I	77.55I	77.07	77.65	76.94	76.24
9	--	75.87	75.47	74.89	74.92I	77.89I	77.75	77.55	77.11I	77.65	76.94	76.19
10	--	75.87I	75.45	74.89	74.95	77.92I	77.69	77.49	77.15	77.65	76.84	76.19
11	--	75.86I	75.42I	74.87	75.05	77.95	77.67I	77.45	77.25	77.62I	76.91I	76.09
12	--	75.85	75.39	74.87	75.09	78.05	77.65	77.40I	77.25	77.60	76.99	76.04
13	--	75.85	75.38I	74.86	75.14I	78.05	77.59	77.35	77.27	77.65	76.99	76.04
14	--	75.78	75.37I	74.85	75.19	78.05	77.59	77.36	77.27	77.63I	76.84	75.94
15	--	75.71	75.36	74.82I	75.28I	78.05	77.58I	77.45	77.28	77.60	76.84	75.94
16	--	75.75	75.35	74.79	75.38	78.05	77.57I	77.35	77.40I	77.45	76.79	75.94I
17	--	75.75	75.35	74.77	75.55	78.10I	77.57	77.35	77.49I	77.45I	76.74	75.94
18	--	75.75	75.30I	74.75	75.65	78.15	77.56I	77.28	77.55	77.45	76.69I	75.92I
19	--	75.74	75.25	74.75	75.85	78.15	77.56I	77.28I	77.60I	77.45	76.64	75.90I
20	--	75.73	75.25	74.73I	76.05	78.05	77.55	77.28	77.65I	77.45	76.64	75.89
21	--	75.69I	75.19	74.71I	76.10I	78.05	77.55	77.28I	77.70	77.45I	76.54	75.89
22	--	75.65	75.18	74.68	76.15	78.05	77.55I	77.28	77.65	77.45	76.54	75.89
23	--	75.65	75.17	74.68	76.40	78.06	77.55	77.25	77.66I	77.45	76.54	75.79
24	--	75.65	75.17	74.67	76.45	78.05	77.49	77.18	77.66	77.42I	76.54	75.79
25	--	75.64I	75.16I	74.66	76.55	78.05	77.49	77.15	77.66I	77.39	76.48I	75.77I
26	--	75.63I	75.16	74.66	76.65	78.05	77.45	77.15I	77.66I	77.34	76.41I	75.74
27	--	75.62	75.15	74.65	76.87	78.05	77.45	77.15	77.65	77.30I	76.34	75.73
28	--	75.61I	75.08	74.65	77.88I	78.05	77.39	77.16	77.66I	77.27I	76.34	75.78
29	--	--	75.08	74.66I	76.88	78.04I	77.39I	77.16	77.67I	77.25I	76.34	75.78
30	--	--	75.08	74.67	77.15	78.02I	77.39	77.15	77.68	77.24I	76.34	75.77I
31	--	--	75.07I	--	77.15	--	77.35	77.15	--	77.24	--	75.76I
MEAN	--	--	75.33	74.81	75.70	77.92	77.62	77.33	77.39	77.51	76.78	75.99
MAX.	--	--	75.60	75.06I	77.88I	78.15	77.98I	77.55	77.70	77.70	77.24	76.34
MIN.	--	--	75.07I	74.65	74.71I	77.23I	77.35	77.15	77.07	77.24I	76.34	75.73

FOR THE YEAR 1962

MAXIMUM

78.15 feet on June 18 and 19

MINIMUM

74.65 feet on April 27 and 28

FOR ALL THE YEARS RECORDED

80.78 feet on July 7, 1950

74.65 feet on April 27 and 28, 1962

NOTES:

I - Interpolated.

Water levels referred to assumed datum determined by Bench Mark No. 081003A, elevation 100.00 feet.

Gauge read once daily.

MISTASSINI LAKE

STATION NUMBER 081003

GAUGE - MANUAL

STATION IN OPERATION SINCE 1949

DAILY WATER ELEVATION IN FEET FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	75.76I	75.13	74.78	74.42	74.32	76.31	78.31	78.59	78.11	77.11	--	76.16
2	75.75	75.13	74.78	74.42	74.32	76.56	78.36	78.61	78.04I	--	--	76.19
3	75.78	75.13	74.78	74.42	74.32	76.63	78.39	78.62	77.93I	--	--	76.20I
4	75.73	75.13	74.77	74.42	74.34	76.81	78.39	78.64	77.84I	--	76.41	76.21I
5	75.73	75.13	74.72	74.42	74.37	76.89	78.35	78.64	77.76	77.06	--	76.21
6	75.68	75.13	74.72	74.42	74.42	77.01	78.33	78.64	77.73	--	--	76.21I
7	75.63	75.13	74.72	74.42	74.42	77.10	78.34	78.61	77.71	--	76.26	76.21I
8	75.58	75.06	74.65	74.42	74.44	77.13	78.36	78.61	77.76	--	--	76.21I
9	75.58	75.05	74.64	74.42	74.47	77.26	78.41	78.59	77.71I	76.81	--	76.21
10	75.58	74.98	74.64	74.37	74.62	77.31	78.41	78.55	77.66	--	--	76.19
11	75.58	74.98	74.64	74.37	74.63	77.34	78.39	78.48I	77.61	76.81	--	76.18I
12	75.53	74.98	74.64	74.37	74.61	77.39	78.37	78.42I	77.56I	--	--	76.17I
13	75.48	74.93	74.67	74.37	74.66	77.41	78.38	78.37	77.51	--	--	76.16
14	75.48	74.93	74.67	74.32	74.68	77.41	78.38	78.35I	77.41	76.66	--	76.16
15	75.48	74.93	74.67	74.29	74.71	77.43	78.41	78.33	77.38I	76.66	76.21	76.06
16	75.48	74.85	74.65	74.29	74.76	77.44	78.51	78.33	77.36	76.66	76.21	76.06
17	75.43	74.85	74.52	74.27	74.81	77.49	78.55	78.35	77.34I	76.66	--	76.01
18	75.43	74.88	74.52	74.27	74.89	77.52I	78.46	78.33	77.33	--	--	75.91
19	75.38	74.88	74.52	74.27	75.03	77.56	78.43	78.31	77.36	--	--	75.91
20	75.38	74.88	74.52	74.32	75.13	77.75I	78.50	78.31	77.41	76.51	--	75.91
21	75.33	74.88	74.52	74.32	75.21	78.00I	78.48	78.30I	77.41	--	76.91	75.86
22	75.33	74.88	74.52	74.32	75.16	78.12	78.48	78.28I	77.38I	--	--	75.86
23	75.33	74.83	74.52	74.32	75.39	78.11	78.47	78.26I	77.36	--	--	75.86
24	75.23	74.83	74.52	74.32	75.61	78.05	78.45	78.24I	77.26I	76.46	--	75.86
25	75.23I	74.83	74.52	74.32	75.65I	78.08I	78.46	78.22I	77.16	--	--	75.86
26	75.23	74.75	74.42	74.32	75.69I	78.11	78.46	78.21	77.16	--	--	75.86
27	75.23	74.75	74.42	74.32	75.73	78.11	78.48I	78.17	77.21	--	--	75.86
28	75.23	74.77	74.42	74.32	75.85	78.21	78.49	78.14I	77.19	--	--	75.86
29	75.18	--	74.42	74.32	75.97I	78.18	78.55	78.12I	77.15I	--	--	75.86I
30	75.18	--	74.42	74.32	76.09I	78.24	78.55	78.10	--	--	--	75.86
31	75.18	--	74.42	--	76.21	--	78.59	78.11	--	--	--	75.86
MEAN	75.46	74.95	74.59	74.35	74.98	77.50	78.44	78.38	--	--	--	76.03
MAX.	75.78	75.13	74.78	74.42	76.21	78.24	78.59	78.64	78.11	--	--	76.21I
MIN.	75.18	74.75	74.42	74.27	74.32	76.31	78.31	78.10	--	--	--	75.86

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED

MAXIMUM

78.64 feet on August 4, 5 and 6

80.78 feet on July 7, 1950

MINIMUM

74.27 feet on April 17, 18 and 19

74.27 feet on April 17, 18 and 19, 1963

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 081003 A, elevation 100.00 feet
 Gauge read once daily.

EASTMAIN

AT HEAD OF BASILE GORGE

STATION NUMBER 090601

DRAINAGE AREA - 17600 SQ. MI.

NATURAL DAILY DISCHARGES

GAUGE - RECORDING

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	30,900*	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MTN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.
 Accuracy of records: good.

EASTMAIN

AT HEAD OF BASILE GORGE

STATION NUMBER 090601

DRAINAGE AREA - 17600 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	108,000I	51,100	55,200C	32,100	27,000I	55,500	30,500E
2	--	--	--	--	--	112,000I	50,400C	57,900C	31,100	27,600	60,800	30,100
3	--	--	--	--	--	114,000	49,700C	59,700	30,200	28,500	65,000	29,800
4	--	--	--	--	--	117,000	48,900	63,000C	29,900	29,500	68,400	29,300
5	--	--	--	--	--	119,000	49,200C	66,500	29,200	30,600	69,400	28,800
6	--	--	--	--	--	119,000	51,200	66,500C	28,200	31,500	69,500	28,300
7	--	--	--	--	--	118,000	52,500C	65,900	27,400	32,500	68,600	28,000
8	--	--	--	--	--	115,000	53,800	65,300	26,700	33,600	66,400	27,400
9	--	--	--	--	--	112,000	53,800C	64,500	26,200	34,700	66,900	27,000
10	--	--	--	--	--	111,000	53,800C	63,500	25,200	35,100	63,600	26,500
11	--	--	--	--	--	109,000	53,800	62,600	24,400	36,000	60,600	26,000
12	--	--	--	--	--	108,000	53,500C	62,300C	24,400	36,500	58,300	25,700
13	--	--	--	--	--	106,000	53,200	62,200	24,400	36,800	55,500	25,200
14	--	--	--	--	--	101,000	52,600	62,000	24,400	37,600	51,100	24,800
15	--	--	--	--	--	98,100	51,900	60,800	23,800C	37,800	48,000	24,500
16	--	--	--	--	--	92,900	50,800	59,700	23,000	37,400	45,200	24,000
17	--	--	--	--	--	88,100	50,300	57,200	22,000	37,200	46,400	23,600
18	--	--	--	--	--	83,800	49,800	54,900	21,800	37,200	44,700	23,000
19	--	--	--	--	--	78,800	48,800	52,800	21,900	37,000	44,200	22,500
20	--	--	--	--	--	74,300	47,000	50,400	21,900	36,700	38,800	21,800
21	--	--	--	--	--	70,500	46,300C	48,200	21,900	36,400	36,200B	21,300
22	--	--	--	--	--	67,700	45,600	46,100	21,900	36,000	35,400	20,500
23	--	--	--	--	--	64,100	44,900*	44,100	21,900	35,800	34,300	20,000
24	--	--	--	--	--	61,500*	45,300C	42,300	22,200	35,700	33,700	19,600
25	--	--	--	--	--	60,000	46,200C	40,600	22,700C	37,200	33,000	19,000
26	--	--	--	--	--	56,000	47,700C	39,600	24,300*	39,200	32,800	18,700
27	--	--	--	--	--	53,100	48,500C	38,100	24,900C	40,700	32,200	18,400
28	--	--	--	--	--	53,100C	49,100	37,200	25,500	43,000	31,800	18,000
29	--	--	--	--	--	53,100C	49,600C	35,600	26,300	44,300	31,200	17,800
30	--	--	--	--	--	53,100	50,100	34,700	26,900C	47,100	30,800	17,600
31	--	--	--	--	--	--	51,900C	33,400	--	50,500	--	17,400
MEAN	--	--	--	--	--	89,200	50,000E	53,300E	25,200E	36,300	49,300	23,700E
MAX.	--	--	--	--	--	119,000	53,800	66,500C	32,100	50,500	69,500	30,500F
MIN.	--	--	--	--	--	53,100	44,900*	33,400	21,800C	27,000I	30,800	17,400F

FOR THE YEAR 1959

MEAN

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MAXIMUM

119,000 cfs on June 5 and 6

MAXIMUM INSTANTANEOUS

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MINIMUM

17,400E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 21.

I - Interpolated.

C - By comparison with Eastmain River (Mile 63) where water levels were observed daily on June 28 and 29, July 2, 3, 5, 7, 9, 10, 12, 21, 22, 24, 25, 26, 27, 29, 31, August 1, 2, 4, and 6 to 12, September 15 to 25 and 27 to 30.

E - Estimated from December 1.

Stage discharge relation is extrapolated above 103,000 cfs and below 22,100 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

One discharge measurements was made in 1958.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 129 and 133 (Station No. 3CC-1).

From June 3 to August 13, discharges were obtained by manual gauge read regularly.

EASTMAIN

AT HEAD OF BASILE GORGE

STATION NUMBER 090601

DRAINAGE AREA - 17600 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	17,000E	9,850	8,350	7,250	9,400	95,100	28,900	25,000	36,400	35,900	46,600	30,800E
2	16,700	9,800	8,300	7,230	13,500	91,000	28,900	26,100	35,600	36,400	45,500	30,500
3	16,600	9,790	8,250	7,200	16,500	85,200	28,200	27,000	34,400	36,400	44,600	30,000
4	16,200	9,750	8,200	7,200	18,000	80,100	27,800	27,700	33,200	36,500	43,400	29,800
5	16,000	9,700	8,150	7,180	20,000	75,400	27,300	28,200	32,900	38,300	42,300	29,500
6	15,800	9,630	8,100	7,150	22,000	70,900	26,700	28,800	33,200	39,600	42,300	29,000
7	15,500	9,590	8,050	7,100	24,000	66,800	26,500	30,100	34,000	40,800	41,400	28,800
8	15,300	9,530	8,000	7,080	26,000	62,900	26,100	31,200	35,600	42,400	41,000	28,500
9	15,000	9,450	8,000	7,050	28,500	59,700	26,200	32,800	37,800	44,000*	41,000	28,300
10	14,800	9,400	7,950	7,030	34,000B	56,200	26,500	35,600	39,600	44,600	40,600	28,000
11	14,700	9,350	7,900	7,020	39,200	53,100	26,700	37,900	40,600	44,900	40,100	27,800
12	14,200	9,250	7,850	7,010	46,200	50,200	26,400	39,600	41,500	45,300	38,700	27,500
13	13,800	9,230	7,800	7,000	55,800	48,000	26,200	41,000	41,000	47,400	37,400	27,200
14	13,500	9,190	7,800	7,000	68,400	45,800*	26,100	42,600	40,000	49,000	37,200	27,000
15	13,200	9,120	7,780	6,990	81,200	43,700	25,800	44,600	39,800	50,100	36,500	26,600
16	12,800	9,050	7,750	6,950	91,700	41,700	25,200	46,900	39,600	52,000	36,000B	26,000
17	12,400	9,000	7,700	6,930	98,300	39,900	25,300	48,200	38,300	52,800	35,300	25,800
18	12,200	8,950	7,650	6,920	106,000	38,500	25,000	49,300	37,100	53,600	35,000E	25,300
19	12,000	8,900	7,630	6,930	113,000	37,600	24,800	50,100	36,400	54,600	34,500	25,000
20	11,800	8,800	7,600	6,950	117,000	36,700	24,600	50,800	35,600	54,700	34,000	24,500
21	11,600	8,780	7,600	7,000	119,000	35,300	24,200*	52,000*	34,800	54,600	33,600	24,000
22	11,300	8,750	7,600	7,050	120,000	34,300	24,000	51,600	33,300	54,000	33,200	23,500
23	11,200	8,650	7,550*	7,150	120,000	33,300	23,900	50,800	32,300	52,600	33,000	23,000
24	11,000	8,630	7,500	7,180	121,000	32,400	23,900	49,800	31,900	52,100	32,600	22,500
25	10,800	8,600	7,450	7,200	122,000	31,300	23,900	48,500	31,800	50,600	32,800	22,000
26	10,600	8,550	7,400	7,350	120,000	30,800	23,600	47,200	32,600	50,000	32,500	21,500
27	10,400	8,480	7,400	7,530	118,000	30,300	23,400	44,400	33,500	49,800	32,200	21,000
28	10,300	8,450	7,380	7,800	115,000	30,100	23,200	44,000	34,400	48,700	32,000	20,300
29	10,100E	8,400*	7,350	8,100	111,000	29,500	23,200	41,900	35,200	47,700	31,500	19,500
30	10,000*	--	7,330	8,600	107,000	28,600	23,500	40,200	35,200	47,500	31,000	19,000
31	9,950	--	7,300	--	100,000	--	23,800	38,800	--	47,200	--	18,200
MEAN	13,100E	9,120	7,760	7,200	74,200	49,800	25,500	40,400	35,900	46,900	37,300E	25,500E
MAX.	17,000E	9,850	8,350	8,600	122,000	95,100	28,900	52,000*	41,500	54,700	46,600	30,800E
MIN.	9,950	8,400*	7,300	6,920	9,400	28,600	23,200	25,000	31,800	35,900	31,000E	18,200E
M.F.C.	.421	.292	.249	.231	2.382	1.598	.817	1.296	1.152	1.505	1.195	.818

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

31,200 cfs

31,200 cfs

MAXIMUM

122,000 cfs on May 25

122,000 cfs on May 25, 1960

MAXIMUM INSTANTANEOUS

122,000 cfs on May 25 at 3 p.m.

122,000 cfs on May 25, 1960 at 3 p.m.

MINIMUM

6,920 cfs on April 18

6,920 cfs on April 18, 1960

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 16.

E - Estimated to January 29 and from November 18.

Stage discharge relation is extrapolated above 103,000 cfs and below 22,100 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3CC-1).

EASTMAIN

AT HEAD OF BASILE GORGE

STATION NUMBER 090601

DRAINAGE AREA - 17600 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	17,900E	12,000	8,700	6,380	35,000	58,000I	25,700	22,300	33,100C	24,700	31,600	30,300E
2	17,700	11,900	8,650	6,300	36,500	54,600	25,600	22,500	33,000	25,600	31,300	30,000
3	17,400	11,800	8,600	6,250	39,100	51,700	25,000	22,400	32,500	26,300	31,500	29,800
4	17,200	11,700	8,520	6,200	41,000	49,500	24,400	22,100	31,000	26,600	32,700	29,500
5	17,000	11,600	8,400	6,160	43,200	46,400	24,400	21,500	29,900	27,100	34,100	29,200
6	16,800	11,500	8,200	6,060	44,600	44,100	24,400	21,300	29,000	27,300	35,200	29,000
7	16,500	11,400	8,100	6,010	45,500	42,400	24,500	21,200	28,000	28,000	35,400	28,800
8	16,300	11,300	8,050	6,000	45,500	40,300	24,400	21,300	27,500	28,400	35,400	28,400
9	16,100	11,100	8,000	6,000	45,800	38,600	24,100	21,600	27,000C	28,900	35,400	28,200
10	15,900	10,900	7,900	6,000	46,200	36,700	23,800	22,000	26,400*	29,800	34,700	28,000
11	15,700	10,800	7,800	6,000	45,700	35,600	23,600	21,400	25,500C	30,700	34,600	27,600
12	15,500	10,700	7,750	6,000	47,500	34,500	24,400	21,600	24,900	30,900	34,600	27,200
13	15,300	10,400	7,720	6,060	47,700	32,800	24,800	20,800	24,700	32,100	34,600	26,800
14	15,100	10,300	7,630	6,380	48,100	32,100	25,800	20,700	24,000	31,700	34,500	26,300
15	14,900	10,200	7,570	7,100	48,300	31,500	25,500	20,500	23,900	31,200	34,500	26,000
16	14,800	10,000	7,500	9,000	50,200	31,100*	25,600	20,200	23,800	31,000	33,900B	25,700
17	14,600	9,900	7,450	11,000	53,500	30,500	25,200	19,900	23,700	30,400	33,700E	25,200
18	14,400	9,800	7,370	12,400	55,400	29,500	24,900	20,000	23,600	30,300	33,500	24,800
19	14,200	9,700	7,250	14,200	57,000E	28,700	25,500	20,200	23,600	30,100	33,300	24,200
20	14,100E	9,600	7,180	16,600	61,900	28,200	25,500	20,300	23,500	30,100	33,100	23,800
21	13,700*	9,500	7,100	19,100	66,000	28,500	25,100	20,300C	23,400	30,100	33,000	23,200
22	13,600	9,350	7,000	24,800	69,000	27,800	24,600	20,400	23,400	30,100	32,900	22,700
23	13,500	9,250	6,960	30,100	71,000	27,200	24,400	21,000	23,400C	30,100	32,700	22,200
24	13,300	9,200	6,900	31,800	72,000	26,900	24,200	21,700	23,400	30,100	32,500	21,800
25	13,200	9,050	6,800*	31,500B	72,500	26,500	24,200	23,000	23,400	30,100	32,000	21,200
26	13,100	9,000	6,740	30,900	72,500	26,200	23,800	25,500	23,400	30,100	31,900	20,800
27	12,900	8,900*	6,680	30,600	71,000	26,200	23,900	29,100	23,400	30,600	31,600	20,200
28	12,700	8,800	6,600	30,700	69,000	26,100	23,700	30,800	23,300	31,600	31,200	19,800
29	12,600	--	6,550	31,200	67,000	25,600	23,100*	31,700	23,300	32,000	31,000	19,300
30	12,400	--	6,470	32,900	64,500	25,600	22,700	32,800	23,800	32,000	30,800	18,800
31	12,100	--	6,410	--	61,000E	--	22,200	33,100	--	30,900	--	18,000
MEAN	14,900E	10,300	7,500	15,000	54,600F	34,800	24,500	23,000E	25,800E	29,600	33,200E	25,100E
MAX.	17,900F	12,000	8,700	32,900	72,500E	58,000I	25,800	33,100C	33,100C	32,100	35,400	30,300E
MIN.	12,100	8,800	6,410	6,000	35,000	25,600	22,200	19,900	23,300	24,700	30,800E	18,000E
M.F.C.	.595	.414	.300	.600	2.189	1.393	.981	.922	1.032	1.188	1.332	1.004

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 25,000 cfs

MAXIMUM 72,500E cfs on May 25 and 26

MAXIMUM INSTANTANEOUS

MINIMUM 6,000 cfs, April 8 to 12

MINIMUM INSTANTANEOUS

28,100 cfs

122,000 cfs on May 25, 1960

122,000 cfs on May 25, 1960 at 3 p.m.

6,000 cfs, April 8 to 12, 1961

NOTES:

* - Discharge measurement.

B - Ice effect to April 25 and from November 16.

I - Interpolated.

C - By comparison with Eastmain River at 4.5 miles downstream from Clearwater River, August 21 to September 9 and from September 11 to 23.

E - Estimated to January 20, May 19 to 31 and from November 17.

Stage discharge relation is extrapolated above 103,000 cfs and below 22,100 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3CC-1).

EASTMAIN

AT HEAD OF BASILE GORGE

STATION NUMBER 090601

DRAINAGE AREA - 17600 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	18,000E	10,800E	7,600	6,250	5,900	93,400	24,300	22,000	19,700	37,700	25,400	15,800E
2	17,700	10,700	7,550	6,230*	6,800	92,100*	23,600	21,800	21,000	36,700	25,400	15,700
3	17,300	10,500	7,500	6,200	8,260	89,100	22,500	22,000	21,700	35,300	25,400	15,600
4	17,000	10,400	7,450	6,190	10,200	85,000	21,900	22,100	21,800	34,700	25,400	15,400
5	16,800	10,300	7,400	6,180	14,200	80,700	21,100	22,000	22,000	33,300	24,900	15,300
6	16,500	10,100	7,330	6,150	18,800	78,000	20,300	22,000	23,700	31,900	23,900	15,200
7	16,200	10,000	7,280	6,130	20,100	73,900	20,300	21,900	24,200	31,100	23,400	15,100
8	15,900	9,900	7,200	6,100	20,900	71,300	20,000	21,900	24,500	30,100	22,500	15,000
9	15,600	9,800	7,150	6,080	21,900	68,500	19,800	22,000	25,000	28,700	22,300	14,900
10	15,400	9,600	7,100	6,050	23,800	66,500	20,800	22,000	25,900	27,700	22,300	14,800
11	15,000	9,550	7,050	6,030	26,600	63,600	21,700	21,800*	26,400	27,000	22,200	14,700
12	14,800	9,450	7,000	6,020	31,000	61,500	21,900	21,500	26,700	26,600	22,000	14,500
13	14,600	9,400	6,950	6,010	36,700	59,400	22,300	21,600	27,400	26,200	19,800	14,300
14	14,400	9,300	6,900	6,000	40,800	56,400	22,600	21,700	28,400	26,200	19,500B	14,200
15	14,100	9,200	6,850	5,990	46,400B	54,000	22,500	21,400	29,700	26,200	19,500E	14,000
16	13,900	9,100	6,750	5,980	55,300	50,500	22,400	21,300	30,400	26,200	19,000	13,900
17	13,700	9,000	6,700	5,970	66,800	47,900	22,000	21,200	31,000	25,800	18,500	13,800
18	13,400	8,900	6,650	5,960	70,700	45,300	22,100	20,900	32,300	25,400	18,300	13,700
19	13,200	8,800	6,630	5,950	76,900	43,300	22,100	20,500	32,700	25,400	18,000	13,500
20	13,000	8,700	6,600	5,940	80,700	40,900	22,200	20,500	33,300	25,400	17,500	13,400
21	12,800	8,600	6,550	5,930	82,500	39,200	22,300	20,300	34,100	25,400	17,300	13,300
22	12,600*	8,500E	6,530	5,920	85,300	37,200	22,300	19,700	35,600	25,400	17,100	13,100
23	12,400	8,400	6,500	5,910	88,200	36,000	22,300	19,200	36,800	25,400	17,000	13,000
24	12,200	8,300*	6,450	5,900	92,300	33,700	22,400	18,800	37,200	25,400	16,800	12,800
25	12,000	8,200	6,430	5,890	95,000	31,700	22,400	18,700	37,200	25,400	16,700	12,600
26	11,800	8,100	6,410	5,880	102,000	30,100	22,500	18,600	37,400	25,400	16,500	12,500
27	11,600	8,000	6,400	5,870	103,000*	28,400	22,500	18,400	37,700	25,400	16,300	12,400
28	11,400	7,900	6,380	5,860	103,000*	27,300	22,300	18,400	37,400	25,400	16,100	12,300
29	11,200	--	6,350	5,850	102,000	26,100	22,300	18,300	37,000	25,400	16,000	12,100
30	11,100	--	6,300	5,840	100,000	24,900	22,100	18,000	36,800	25,400	15,900	12,000
31	11,000	--	6,250	--	97,100	--	22,000	18,400	--	25,400	--	11,900E
MEAN	14,100E	9,270E	6,840	6,010	55,900	54,500	22,000	20,600	29,800	28,000	20,000E	13,900F
MAX.	18,000E	10,800E	7,600	6,250	103,000*	93,400	24,300	22,100	37,700	37,700	25,400	15,800E
MIN.	11,000F	7,900	6,250	5,840	5,900	24,900	19,800	18,000	19,700	25,400	15,900E	11,900F
M.F.C.	.599	.394	.291	.255	2.380	2.322	.936	.877	1.270	1.191	.851	.591

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

23,500 cfs

26,500 cfs

MAXIMUM

103,000 cfs on May 27 and 28

122,000 cfs on May 25, 1960

MAXIMUM INSTANTANEOUS

104,000 cfs on May 28 at 6 p.m.

122,000 cfs on May 25, 1960 at 3 p.m.

MINIMUM

5,840 cfs on April 30

5,840 cfs on April 30, 1962

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 15 and from November 14.

E - Estimated to February 22 and from November 15.

Stage discharge relation is extrapolated above 103,000 cfs and below 19,600 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3CC-1).

EASTMAIN

AT HEAD OF BASILE GORGE

STATION NUMBER 090601

DRAINAGE AREA - 17600 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11,800	7,450	5,610	5,200	25,200	78,000I	30,700I	37,100	20,800	21,100	19,200	24,100E
2	11,700	7,400	5,600	5,190	26,900	78,500I	29,500I	37,100	20,200*	22,100	19,200	24,200
3	11,500	7,300	5,580	5,180	27,000	79,200I	28,500I	37,500	19,800	22,100	19,200	24,300
4	11,300	7,200	5,570	5,160	29,100	79,500I	28,000I	38,300	18,900	22,100	19,100	24,200
5	11,100	7,050	5,560	5,150	29,400	79,700I	27,000	38,800	18,700I	22,500	19,200	24,100
6	11,000	7,000	5,550	5,140	30,600	79,900	27,000	38,800	18,600I	22,800	19,800	24,000
7	10,800	6,850	5,500	5,130	32,200	79,500	26,400	38,800	18,500I	22,800	20,100	23,800
8	10,700	6,800	5,540	5,120	33,000	78,800	25,400	38,400	18,300I	22,800	20,500	23,500
9	10,600	6,700	5,530	5,110	34,300	77,900	25,400	37,200	18,100*	23,500	20,500	23,000
10	10,400	6,650	5,520	5,100	35,300	76,600	24,700	36,400	17,700	22,900	20,500B	22,800
11	10,200	6,600	5,520	5,120	36,500	75,500	24,500	35,400	17,500	22,800	20,000	22,200
12	10,000	6,500	5,500	5,150	38,200	72,300	26,400	34,500	17,500	22,800	19,800	22,000
13	9,800	6,400	5,490	5,200	39,500I	69,200	23,900	33,000	17,600	22,800	19,300	21,600
14	9,600	6,350	5,470	5,250	41,800I	66,200	23,800	31,700	17,300	22,400	19,000	21,000
15	9,500	6,300	5,460	5,350	43,300I	63,100	24,100	30,400	17,000	22,000	18,400	20,500
16	9,400	6,200	5,450	5,450	45,000I	59,800	24,500	29,500	17,000	22,000	18,000	20,000
17	9,200	6,100	5,430	5,700	46,500I	56,300	24,500	29,000	16,700	22,000	17,800	19,600
18	9,100	6,000	5,420	6,000	48,500I	53,300	24,800	27,800	16,400	21,500	17,800	19,200
19	9,000	5,900	5,400	7,700	50,000I	50,300	25,400	27,100	16,800	21,300	17,800	18,900
20	8,800	5,880	5,390	10,500	52,200I	47,900	25,900	26,700	17,100	20,700	17,900	18,500
21	8,700	5,850*	5,370	12,000	54,100I	45,000	26,100*	26,100	17,200	20,500	18,100	18,100
22	8,600	5,830	5,350	14,500	56,200I	42,100	26,200	25,200	17,200	20,500	18,700	17,800
23	8,400	5,800	5,340*	14,800	58,200I	40,200	26,300	25,200	17,300	20,200	19,200E	17,500
24	8,300	5,780	5,320	15,200	60,000I	38,100	26,400	24,500	17,500	19,800	20,000	17,300
25	8,200	5,750	5,300	15,800B	62,500I	36,900	26,900	23,900	17,900	19,800	21,200	17,000
26	8,100	5,700	5,290	16,700	65,500I	36,000	27,300	23,400	17,900	19,400	22,100	16,700
27	8,000*	5,680	5,280	17,400	68,000I	36,000	28,300	23,100	18,300	19,200	22,800	16,300
28	7,800	5,650	5,260	18,700	70,000I	34,800I	30,700	22,400	19,200	19,200	23,200	16,000
29	7,700	--	5,240	22,600	73,000I	33,500I	34,900	21,600	20,300	19,200	23,800	15,800
30	7,600	--	5,220	25,200	75,500	32,000I	35,600	21,700	20,700	19,200	24,000	15,500
31	7,500	--	5,200	--	77,000I	--	36,800	21,700	--	19,200	--	15,200E
MEAN	9,500	6,380	5,430	9,530	47,200	59,200	27,200	30,400	18,100	21,300	19,900E	20,200E
MAX.	11,800	7,450	5,610	25,200	77,000I	79,900	36,800	38,800	20,800	23,500	24,000E	24,300E
MIN.	7,500	5,650	5,200	5,100	25,200	32,000I	23,800	21,600	16,400	19,200	17,800	15,200E
M.F.C.	.413	.277	.236	.414	2.057	2.578	1.185	1.323	.789	.928	.865	.877

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (4 Years)

MEAN

23,000 cfs

25,600 cfs

MAXIMUM

79,900 cfs on June 6

122,000 cfs on May 25, 1960

MAXIMUM INSTANTANEOUS

79,900 cfs on June 6 at 3 p.m.

122,000 cfs on May 25, 1960 at 3 p.m.

MINIMUM

5,100 cfs on April 10

5,100 cfs on April 10, 1963

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to April 25 and from November 10.

I - Interpolated.

E - Estimated from November 23.

Stage discharge relation is extrapolated above 103,000 cfs and below 19,600 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3CC-1).

EASTMAIN

4.5 MI. DOWNSTREAM FROM THE CLEARWATER RIVER

STATION NUMBER 090602

DRAINAGE AREA - 11200 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	19,200*	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	36,900*	42,900*	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	25,200*	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	14,100*	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	36,400*	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	27,700*	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	14,300	--	--	--
26	--	--	--	--	--	35,200*	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	33,700	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1959

MEAN

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MAXIMUM

42,900 cfs on August 7

MAXIMUM INSTANTANEOUS

MINIMUM

14,100 cfs on September 13

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

Stage discharge relation is extrapolated above 93,000 cfs and below 12,800 cfs.

Accuracy of records: good.

EASTMAIN

4.5 MI. DOWNSTREAM FROM THE CLEARWATER RIVER

STATION NUMBER 090602

DRAINAGE AREA - 11200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	59,000I	19,800	17,100	26,200	26,800	26,200	21,000E
2	--	--	--	--	--	56,000I	19,500*	18,100	25,700	27,400	25,600	20,400
3	--	--	--	--	--	53,500I	19,200	18,800	25,700	27,400	25,000	19,900
4	--	--	--	--	--	51,100*	18,800	20,000	25,700	27,400	24,800	19,600
5	--	--	--	--	--	48,700	18,700	21,300	26,200	27,400	24,800	19,200
6	--	--	--	--	--	45,900	18,900	22,600	27,900	27,700	24,400	18,800
7	--	--	--	--	--	43,000	19,100	24,900	30,400	28,200	24,300	18,400
8	--	--	--	--	--	40,600	19,000	27,000	32,500	29,200	24,400	18,000
9	--	--	--	--	--	38,500	19,000	29,000	34,100	29,500	24,400	17,700
10	--	--	--	--	--	36,600	19,100	31,400	34,600	30,000	24,500	17,400
11	--	--	--	--	--	34,900	19,100	32,800	34,700	31,000	24,400	17,000
12	--	--	--	--	--	33,000	19,100	34,000	34,400	32,200	23,700	16,700
13	--	--	--	--	--	31,400	19,100	35,600	33,500	33,300	23,000	16,400
14	--	--	--	--	--	30,000	18,900	37,600	32,000	34,200	22,400	16,200
15	--	--	--	--	--	28,400	18,700	39,200	30,800	34,400	22,500B	15,800
16	--	--	--	--	--	27,000	18,300	40,400	29,600	34,400	22,500	15,600
17	--	5,950*	--	--	--	26,400	17,900	41,300	28,400	34,400	22,500	15,300
18	--	--	--	--	--	25,600	17,700	42,100	27,200	34,400	23,000	15,000
19	--	--	--	4,370*	--	24,800	17,200	42,900	26,200	34,000	23,100	14,800
20	--	--	--	--	--	24,000	17,000	43,000	25,800	33,700	23,200	14,500
21	--	--	--	--	--	23,300	16,600	42,700	25,400	32,900	23,300	14,300
22	--	--	--	--	--	22,400	16,400	41,600	24,600	32,500	23,300	14,000
23	--	--	--	--	--	22,100	16,100	40,000	24,400	31,900	23,100	13,700
24	--	--	--	--	--	21,800	16,000	38,600	24,400	31,400	23,000E	13,400
25	--	--	--	--	--	21,600	15,700	36,900	24,600	31,000	22,900	13,100
26	--	--	--	--	--	21,200	15,500	35,400	25,000	30,200	22,600	12,900
27	--	--	--	--	--	20,600	15,400	33,400	25,600	29,500	22,400	12,700
28	--	--	--	--	--	20,200	15,400	32,100	26,000	29,000	22,000	12,500
29	--	--	--	--	--	20,200	15,400	30,400	26,500	28,000	21,700	12,100
30	--	--	--	--	--	20,000	15,800	28,700	26,800	27,600	21,300	11,900
31	--	--	--	--	--	--	16,300	27,600	--	27,000	--	11,800
MEAN	--	--	--	--	--	32,400	17,700	32,500	28,200	30,600	23,500E	15,800E
MAX.	--	--	--	--	--	59,000I	19,800	43,000	34,700	34,400	26,200	21,000E
MIN.	--	--	--	--	--	20,000	15,400	17,100	24,400	26,800	21,300E	11,800E

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (...Years)

MEAN

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MAXIMUM

59,000I cfs on June 1

59,000I cfs on June 1, 1960

MAXIMUM INSTANTANEOUS *

MINIMUM

11,800E cfs on December 31

11,800E cfs on December 31, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 15.

I - Interpolated.

E - Estimated from November 24.

Stage discharge relation is extrapolated above 95,600 cfs and below 12,800 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

EASTMAIN

4.5 MI. DOWNSTREAM FROM THE CLEARWATER RIVER

STATION NUMBER 090602

DRAINAGE AREA - 11200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11,700E	7,000F	5,280E	4,100E	25,000C	42,000I	17,000	15,500	22,400	17,700	19,800	18,000E
2	11,400	6,900	5,210	4,100	25,700	38,700	16,800	15,400	22,100	18,100	19,300	17,800
3	11,200	6,850	5,130	4,090	26,400	36,600	16,600	15,400	21,900	18,600	19,100	17,600
4	11,000	6,800	5,050	4,050	27,000	34,400	16,000	15,500	21,000	18,900	18,900	17,600
5	10,800	6,700	4,980	4,050	27,500	32,600	15,900	15,700	20,200	19,300	19,200	17,500
6	10,600	6,680	4,920	4,050	28,000	30,800	15,900	16,200	19,700	19,800	19,600	17,400
7	10,400	6,650	4,870	4,050	29,000	29,300	15,900	16,600	18,800	20,500	19,600	17,300
8	10,200	6,600	4,820	4,050	29,500	27,900	16,000	16,700	18,200	20,800	19,600	17,200
9	10,000	6,500	4,780	4,100	29,700	26,800*	16,200	16,800	17,900	20,900	19,700	17,000
10	9,800	6,450	4,750	4,200E	30,000	25,800	16,600	16,700	17,400	21,100	19,700	16,800
11	9,650	6,400	4,700	4,350C	31,000	25,200	17,100	16,700	17,000	21,200	19,800	16,600
12	9,500	6,350	4,700	4,500	32,000	24,500	17,800	16,600	16,500	21,000	20,000	16,500
13	9,350	6,250	4,650	4,800	33,000	23,600	18,500	16,300	16,400	20,800	19,800	16,300
14	9,200	6,200	4,600	5,000	34,000	23,200	18,700	15,900	16,100*	20,800	19,300	16,100
15	9,050	6,100	4,550	5,500	36,000	22,800	18,600	15,600	15,600	20,300	19,100B	16,000
16	8,900	6,050	4,500	6,600	37,000	22,200	18,500	15,100	15,300	20,200	19,000E	15,700
17	8,750	6,000	4,500	8,000	40,000	21,500	18,500	15,000	15,400	20,000	19,000	15,500
18	8,600	5,950	4,450	9,300	43,000	21,000	18,300	14,800	15,400	19,700	19,000	15,300
19	8,450	5,900	4,430	10,500	46,000	20,400	18,200	15,000	15,400	19,500	18,900	15,000
20	8,300	5,850	4,400	12,000	50,000	19,700	18,100	15,600	15,300	19,800	18,900	14,700
21	8,100	5,800	4,370	14,500	52,000	19,300*	17,800	16,500	15,400	19,700	18,900	14,500
22	8,000	5,750	4,330	16,000	54,000	18,600	17,300	17,300	15,400	19,700	18,900	14,100
23	7,900	5,650	4,270	17,400	55,000	18,000	17,000	18,000	15,300	19,800	18,800	13,700
24	7,700	5,600	4,230	18,700	55,500	17,800	16,800	19,100	15,600	19,700	18,800	13,400
25	7,600	5,550	4,200	20,000	56,000	17,700	16,700*	20,100	15,600	19,800	18,700	13,000
26	7,500	5,450	4,180	21,400	55,500	17,700	16,600	21,000	15,700	20,100	18,600	12,700
27	7,400	5,400	4,160	22,300	55,000	17,700	16,200	21,800	15,800	20,300	18,500	12,500
28	7,300*	5,350	4,150	23,000	53,000	17,600	15,700	22,400	16,200	20,400	18,400	12,400
29	7,200	--	4,130	23,800	51,000	17,400	15,500	22,400	16,500	20,600	18,300	12,100
30	7,100	--	4,120	24,500B	50,000	17,100	15,400	22,400	17,000	20,400	18,200	11,900
31	7,000	--	4,110	--	46,000C	--	15,400	22,400	--	20,100	--	11,800
MEAN	9,020E	6,170E	4,570E	10,400E	40,100E	24,300	17,000	17,400	17,200	20,000	19,100E	15,300E
MAX.	11,700E	7,000F	5,280E	24,500C	56,000C	42,000I	18,700	22,400	22,400	21,200	20,000	18,000E
MIN.	7,000F	5,350E	4,110E	4,050E	25,000C	17,100	15,400	14,800	15,300	17,700	18,200E	11,800E
M.F.C.	.537	.367	.271	.621	2.388	1.445	1.010	1.038	1.025	1.190	1.138	.910

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

16,800 cfs

16,800 cfs

MAXIMUM

56,000 cfs on May 25

59,000I on June 1, 1960

MAXIMUM INSTANTANEOUS

MINIMUM

4,050E cfs, April 4 to 8

4,050E cfs, April 4 to 8, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to April 30, and from November 15.

I - Interpolated.

C - By comparison with Eastmain River at Head of Basile Gorge, April 11 to May 31.

E - Estimated to April 10 and from November 16.

Stage discharge relation is extrapolated above 95,600 cfs and below 12,800 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

EASTMAIN

4.5 MI. DOWNSTREAM FROM THE CLEARWATER RIVER

STATION NUMBER 090602

DRAINAGE AREA - 11200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11,800E	7,410E	5,450E	4,620	4,950	63,800	15,300	12,900	12,900	25,000	17,000	9,950E
2	11,600	7,310	5,400	4,610*	5,500	60,600	14,700	12,900	13,300	24,800	16,600	9,850
3	11,400	7,210	5,340	4,610	6,300	58,500	14,200	12,900	14,000	23,500	16,200	9,800
4	11,200	7,120*	5,290E	4,600	7,500	56,400	13,600	13,000	14,200	22,600	16,200	9,700
5	11,000	7,030	5,240*	4,590	9,100	54,100	13,200	13,400	14,200	21,800	14,700	9,600
6	10,900	6,950	5,200	4,580	10,200	52,400	12,800	13,500*	14,400C	20,400	14,300	9,550
7	10,700	6,880	5,170	4,580	12,200	51,200	12,700	13,800	14,900	20,300	14,300	9,500
8	10,500	6,800	5,140	4,570	14,700	49,500	12,800	14,100	15,500	19,300	14,300	9,400
9	10,300	6,720	5,090	4,560	17,200	48,200	12,800	14,500	16,000	18,200	14,300	9,350
10	10,100	6,640	5,040	4,560	19,500	46,300	13,300	14,600	16,700	18,200	14,300B	9,300
11	10,000	6,570	5,020	4,550	22,700	44,200	13,500	14,700	17,200	17,500	14,100	9,250
12	9,830	6,510	5,000	4,540	26,700	42,300	13,600	14,700	18,000	16,800	13,700	9,200
13	9,670	6,450	4,970	4,530	29,500	40,100	13,600	14,600	18,900	16,300	13,100	9,100
14	9,510	6,390	4,950	4,520	32,200	37,900	13,800	14,500	19,700	16,200	12,900	9,000
15	9,350	6,340	4,930	4,510	35,900	35,800	14,000	14,000	20,200	15,500	12,700	8,950
16	9,200	6,270	4,890	4,500	41,500	33,900	14,200	13,500	21,200	14,800	12,400	8,850
17	9,060	6,200	4,860	4,490	45,900	31,400	14,500	13,100	22,100	14,400	12,100	8,750
18	8,930	6,130	4,840	4,480	52,600	30,000	14,700	12,900	23,000	14,400	11,900	8,600
19	8,810	6,060	4,820	4,480	57,300	28,300	15,000	12,800	24,000	14,400	11,700	8,500
20	8,690	5,990	4,800	4,470	60,900B	26,800	14,900	12,800	25,000	14,400	11,400	8,400
21	8,580	5,930	4,780	4,460	64,100	25,400	15,100	12,600	26,200	14,400	11,200E	8,200
22	8,460	5,870	4,760	4,460	66,700	24,000*	14,800	12,400	27,000	14,400	11,000	8,000
23	8,340	5,820	4,740	4,460	69,700	23,000	14,700	12,400	27,800	14,400	10,800	7,800
24	8,220	5,770	4,720	4,450	71,900	21,700	14,500	12,400	28,200	14,400	10,600	7,600
25	8,110	5,730	4,700	4,450	73,500	20,600	14,200	12,400	28,500	14,800	10,500	7,400
26	8,000	5,690	4,680	4,450	74,700	19,500	13,800	12,500	28,800	15,800	10,400	7,200
27	7,890	5,630	4,660	4,500	75,900	18,500	13,400	12,500	28,500	16,300	10,300	7,000
28	7,790	5,560	4,650	4,540	76,200	17,700	13,000	12,500	28,100	16,300	10,200	6,800
29	7,700	--	4,640	4,600	74,300	17,100	12,900	12,600	27,000C	16,500	10,100	6,600
30	7,600	--	4,630	4,700	71,200	16,000	12,800	12,600	25,700	16,900	10,000	6,500
31	7,510	--	4,620	--	67,600	--	12,900	12,600	--	17,200	--	6,400
MEAN	9,380E	6,390E	4,940	4,530	41,900	36,500	13,800	13,200	21,000E	17,400	12,800E	8,520E
MAX.	11,800E	7,410E	5,450E	4,700	76,200	63,800	15,300	14,700	28,800C	25,000	17,000	9,950F
MTN.	7,510F	5,560E	4,620	4,450	4,950	16,000	12,700	12,400	12,900	14,400	10,000E	6,400E
M.F.C.	.589	.401	.310	.284	2.630	2.293	.869	.832	1.321	1.094	.802	.535

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 15,900 cfs

MAXIMUM 76,200 cfs on May 28

MAXIMUM INSTANTANEOUS 76,700 cfs on May 28 at 9 a.m.

MINIMUM 4,450 cfs, April 24 to 26

MINIMUM INSTANTANEOUS

16,400 cfs

76,200 cfs on May 28, 1962

76,700 cfs on May 28, 1962 at 9 a.m.

4,050E cfs, April 4 to 8, 1961

NOTES

* - Discharge measurement.

B - Ice effect to May 20 and from November 10.

C - By comparison with Eastmain River at Head of Basile Gorge, September 6 to 29.

E - Estimated to March 4 and from November 21.

Stage discharge relation is extrapolated above 95,600 cfs and below 12,800 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

EASTMAIN

4.5 MI. DOWNSTREAM FROM THE CLEARWATER RIVER

STATION NUMBER 090602

DRAINAGE AREA - 11200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	6,300E	4,250E	3,700E	3,230	12,000	57,900	19,100	25,800	15,000	16,700	13,500	11,700E
2	6,200	4,220	3,700	3,230	13,000	58,600	19,100	26,300	14,500*	16,900	14,000	11,800
3	6,150	4,200	3,700*	3,220	14,000	58,500	18,500	27,400	14,100	17,000	14,200	12,000
4	6,050	4,190	3,700	3,230	15,000	59,800	18,600*	28,100	13,800	16,900	14,500	12,200
5	6,000	4,160	3,680	3,230	16,500	59,200	17,900	28,600	13,800	17,100	14,900	12,300
6	5,900	4,150	3,660	3,250	17,200	59,400	17,400	28,200	13,500	17,100	15,000	12,400
7	5,800	4,120	3,640	3,280	18,100	59,300	17,100	27,400	13,200	17,100	15,000	12,400
8	5,700	4,090	3,620	3,300	19,600	57,900	17,000	26,400	13,000	16,700	15,000	12,400
9	5,600	4,050	3,610	3,310	20,800	56,800	17,100	25,600	12,800	16,700	15,000	12,400
10	5,550	4,020	3,600	3,380	21,800	55,000	16,900	24,400	12,500	16,600	15,200	12,300
11	5,500	4,010	3,560	3,600	23,800	52,900	17,000	23,700	12,300	16,300	15,400	12,200
12	5,400	4,000	3,530	3,900	24,000	50,700	17,000	22,400	12,100	16,100	15,200	12,100
13	5,350	3,980	3,500	4,200	25,100	47,700	16,700	21,900	12,200	15,900	15,000	12,000
14	5,250	3,970	3,480	4,400	26,000I	44,500	16,600	20,800	12,200	15,800	15,000	11,800
15	5,200	3,940	3,460	4,900	26,500I	41,500	16,400	19,800	12,200	15,300	15,000	11,700
16	5,100	3,920	3,440	5,300	28,000I	38,800	16,800	19,300	12,200	14,900	14,900	11,500
17	5,020	3,900	3,420	5,700	29,200I	35,700	17,100	18,500	12,200	14,800	14,700	11,300
18	4,980	3,890	3,400	6,100	31,000I	33,300	17,100	18,100	12,200	14,700	14,100	11,000
19	4,900	3,860	3,390	6,500	32,500I	31,400	17,100	17,700	12,200	14,400	13,400	10,700
20	4,850	3,850	3,370	6,900	34,000I	29,500	17,100*	17,800	12,200	14,100	12,900E	10,500
21	4,800	3,850	3,350	7,400	35,800I	27,800	17,100	17,700	12,300	14,000	12,600	10,300
22	4,750	3,830	3,330	7,800	37,400I	26,100	17,200	17,400	12,300	13,500	12,200E	10,200
23	4,700	3,800	3,310	8,200	39,500I	24,800	17,300	17,100	12,900	13,400	11,800	10,000
24	4,630	3,800	3,300	8,500	41,500I	23,600	17,800	16,800	13,200	13,100	11,600	9,800
25	4,600	3,800	3,300	8,800	43,500I	22,800	18,700	16,600	14,000	13,000	11,500	9,600
26	4,550	3,780	3,280E	9,100	46,000I	21,900	19,300	16,400	14,500	13,000	11,400	9,500
27	4,500	3,750	3,280*	9,600	48,000I	21,000	20,600	16,500	15,100	13,000	11,300	9,300
28	4,450	3,740	3,280	10,200	50,000I	20,400	22,000	16,400	16,000	12,900	11,300	9,100
29	4,400	--	3,280	10,500	52,500I	20,100	23,100	15,900	16,100	12,900	11,400	9,000
30	4,300	--	3,280	11,100	54,500I	19,700	23,900	15,800	16,700	13,100	11,500	8,800
31	4,280*	--	3,280	--	57,600	--	24,400	15,600	--	13,300	--	8,600E
MEAN	5,190E	3,970E	3,470E	5,850	30,800	40,600	18,400	21,000	13,400	15,000	13,600E	11,000E
MAX.	6,300E	4,250E	3,700E	11,100	57,600	59,800	24,400	28,600	16,700	17,100	15,400	12,400E
MIN.	4,280*	3,740E	3,280E	3,220	12,000	19,700	16,400	15,600	12,100	12,900	11,300E	8,600E
M.F.C.	.340	.260	.227	.383	2.020	2.661	1.204	1.376	.877	.987	.893	.721

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

15,200 cfs

16,000 cfs

MAXIMUM

59,800 cfs on June 4

76,200 cfs on May 28, 1962

MAXIMUM INSTANTANEOUS

60,600 cfs on June 4 at noon

76,700 cfs on May 28, 1962 at 9 a.m.

MINIMUM

3,220 cfs on April 3

3,220 cfs on April 3, 1963

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 14 and from November 22.

I - Interpolated.

E - Estimated to March 26 and from November 20.

Stage discharge relation is extrapolated above 95,600 cfs and below 12,800 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

OPINACA

75

10.0 MI. UPSTREAM FROM THE GIARD RIVER

STATION NUMBER 090609

DRAINAGE AREA - 1350 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	3,810*	--	--	--	--	--
2	--	--	--	--	--	--	--	--	2,390*	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	7,360*	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	2,420	--	--	--
15	--	--	--	--	--	--	3,810*	--	--	3,000	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	5,110*	--	--	--	--	--	--
22	--	--	--	--	--	--	--	4,290*	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	2,130*	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	6,430*	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
Accuracy of records: good.

OPINACA

10.0 MI. UPSTREAM FROM THE GIARD RIVER

STATION NUMBER 090609

DRAINAGE AREA - 1350 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	5,290	1,660I	2,190*	1,840	3,310	3,500	2,990E
2	--	--	--	--	--	4,900	1,640I	2,240	1,790	3,400	3,490	2,940
3	--	--	--	--	--	4,620	1,620I	2,310	1,800	3,460	3,490	2,880
4	--	--	--	--	--	4,350	1,610*	2,420	1,820	3,500	3,430	2,880
5	--	--	--	--	--	4,120	1,620I	2,520	1,800	3,530	3,420	2,800
6	--	--	--	--	--	3,910	1,630I	2,600	1,790	3,890	3,410	2,750
7	--	--	--	--	--	3,740	1,640I	2,650	1,750	4,310	3,390	2,700
8	--	--	--	--	--	3,640	1,650I	2,700	1,720	4,640	3,410	2,600
9	--	--	--	--	--	3,560	1,680I	2,720	1,670	4,810	3,420	2,580
10	--	--	--	--	--	3,390	1,690I	2,710	1,640	5,020	3,320	2,500
11	--	--	--	--	--	5,240	1,700I	2,700	1,620	5,210	3,220	2,400
12	--	--	--	--	--	3,030	1,710I	2,670	1,560	5,450	3,120	2,340
13	--	--	--	--	--	2,940	1,720I	2,780	1,550	5,490	3,180	2,270
14	--	--	--	--	--	2,820	1,730I	2,900	1,550	5,470	3,040	2,200
15	--	--	--	--	--	2,670	1,760I	2,910	1,530	5,270	2,820	2,140
16	--	--	--	--	--	2,410	1,780I	2,990	1,570	5,130	2,900B	2,090
17	--	--	--	--	--	2,350	1,790I	3,060	1,610	4,980	3,000E	2,000
18	--	--	--	--	--	2,290	1,800I	3,120	1,680	4,840	3,100	1,920
19	--	--	--	--	--	2,220I	1,800I	3,150C	1,810	4,770	3,200	1,850
20	--	610*	--	--	--	2,150I	1,810I	3,190	1,880	4,690	3,240	1,800
21	--	--	--	--	--	2,100I	1,810I	3,200	1,960	4,580	3,290	1,750
22	--	--	--	--	--	2,020I	1,820I	3,200	1,970	4,460	3,290	1,680
23	--	--	--	--	--	1,990I	1,820	3,100	1,970	4,350	3,280	1,600
24	--	--	--	--	--	1,920I	1,790	3,000	1,970	4,240	3,240	1,570
25	--	--	--	--	--	1,880I	1,740	2,700	2,040	4,120	3,240	1,500
26	--	--	--	--	--	1,830I	1,720	2,400	2,240	4,030	3,200	1,480
27	--	--	--	--	--	1,780I	1,680	2,200	2,430	3,830	3,180	1,420
28	--	--	--	--	--	1,750I	1,680	2,000C	2,650	3,730	3,110	1,390
29	--	--	--	--	--	1,710I	1,740	1,940	2,850	3,680	3,090	1,340
30	--	--	--	--	5,840*	1,680I	1,910	1,900	3,080	3,610	3,000	1,300
31	--	--	--	--	5,610	--	2,050	1,840	--	3,550	--	1,260
MEAN	--	--	--	--	--	2,940	1,740	2,650E	1,900	4,370	3,230E	2,090E
MAX.	--	--	--	--	--	5,290	2,050	3,200C	3,080	5,490	3,500	2,990E
MIN.	--	--	--	--	--	1,680I	1,610*	1,840	1,530	3,310	2,820	1,260E

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (...Years)

MEAN

--

MAXIMUM

5,840 cfs on May 30

7,360 cfs on August 8, 1959

MAXIMUM INSTANTANEOUS

5,900 cfs on May 30 at 7 p.m.

MINIMUM

610 cfs on February 20

610 cfs on February 20, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 16.

C - By comparison with Gipouloux River August 19 to 28.

I - Interpolated.

E - Estimated from November 17.

Stage discharge relation is extrapolated above 7,380 cfs and below 930 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Eight discharge measurements were made in 1959.

OPINACA

10.0 MI. UPSTREAM FROM THE GIARD RIVER

STATION NUMBER 090609

DRAINAGE AREA - 1350 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,200E	645E	520E	480E	1,920E	3,320	1,670	1,250I	1,240	1,890	2,590	3,000E
2	1,160	640	520	480	2,000	3,090	1,640	1,220I	1,230	2,060	2,550	3,000
3	1,120	635	520	480	2,100	2,880	1,640	1,220I	1,400	2,160	2,550	2,950
4	1,090	630	520	480	2,200	2,720	1,670	1,200I	1,440	2,250	2,750	2,900
5	1,060	625	520	480	2,260	2,540	1,680	1,190I	1,440	2,330	3,140	2,890
6	1,020	620	515	480	2,320	2,410	1,690	1,170I	1,430	2,370	3,380	2,840
7	990	610	515	480	2,450	2,280	1,690	1,140I	1,380	2,380	3,580	2,800
8	960	605	515	480	2,520	2,150	1,740	1,100I	1,320	2,330	3,720	2,730
9	940	600	515	480	2,700	2,070	1,710	1,080I	1,300	2,310	3,800	2,700
10	920	590	515	480	2,800	1,940*	1,680	1,070I	1,300	2,390	3,630	2,620
11	900	585	510	479	2,900B	1,840	1,680	1,070I	1,250	2,500	3,600	2,600
12	880	580	510	479	3,300	1,730	1,630	1,060*	1,210	2,580	3,600	2,500
13	860	577	510	480	3,510	1,640	1,540	1,090	1,200	2,610	3,420	2,470
14	840	574	510	490	4,100	1,580	1,490	1,100	1,130	2,610	3,290	2,400
15	830	570	500	500	4,800	1,510	1,440	1,050	1,120	2,640	3,220	2,300
16	820	567	500	530	5,050	1,480	1,400	1,050	1,140	2,630	3,150	2,250
17	800	564	500	570	5,500	1,440	1,370	1,050	1,180	2,610	3,090E	2,190
18	780	562	490	600	6,000	1,480	1,730*	1,050	1,200	2,580	3,020	2,100
19	770	560	490	660	6,300	1,490	1,760	1,100	1,220	2,570	3,010	2,010
20	760	555	485	720	6,560	1,550	1,710	1,150	1,230	2,500	3,010	1,980
21	750	550	485	800	6,560	1,500	1,650	1,180	1,240	2,470	3,020B	1,900
22	740	547	485	880	6,550	1,480	1,580	1,190	1,230	2,460	3,050	1,870
23	730	543	485	960	6,250	1,490	1,470	1,190	1,270	2,450	3,090	1,810
24	720	540	485	1,080	6,010	1,490	1,400	1,190	1,290	2,390	3,090	1,780
25	710	538	485	1,200	5,800	1,480	1,380I	1,210	1,270	2,350	3,080	1,710
26	700	535	485	1,340	5,490	1,490	1,330I	1,240	1,270	2,430	3,050	1,680
27	690*	532	485	1,430	4,990	1,500*	1,310I	1,280	1,320	2,560	3,050	1,620
28	680	530	485	1,530	4,590	1,480	1,290I	1,330	1,460	2,630	3,040	1,590
29	670	--	485	1,680	4,280	1,550	1,280I	1,310	1,620	2,630	3,030	1,530
30	660	--	485	1,800	3,800	1,650	1,270I	1,300	1,760	2,640	3,020	1,500
31	650	--	480	--	3,500E	--	1,260I	1,290	--	2,630	--	1,490
MFAN	852E	579E	500E	767E	4,160E	1,880	1,540	1,170	1,300	2,450	3,150E	2,250E
MAX.	1,200E	645E	520E	1,800E	6,560E	3,320	1,760	1,330	1,760	2,640	3,800	3,000E
MIN.	650E	530E	480E	479E	1,920E	1,440	1,260I	1,050	1,120	1,890	2,550	1,490E
M.F.C.	.493	.335	.289	.444	2.413	1.086	.893	.675	.755	1.419	1.828	1.303

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

1,730 cfs

1,730 cfs

MAXIMUM

6,560E cfs on May 20 and 21

7,360 cfs on August 8, 1959

MAXIMUM INSTANTANEOUS

MINIMUM

479E cfs on April 11 and 12

479E cfs on April 11 and 12, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 11 and from November 21.

I - Interpolated.

E - Estimated to May 31 and from November 17.

Stage discharge relation is extrapolated above 7,380 cfs and below 930 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

OPINACA

10.0 MI. UPSTREAM FROM THE GIARD RIVER

STATION NUMBER 090609

DRAINAGE AREA - 1350 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,400E	650E	410	310	283	4,710	1,360	3,260	1,710	2,210	2,190	1,440E
2	1,370	640	400	309	290	4,620	1,300	3,210	2,160	2,190	2,190	1,410
3	1,310	630	400	308*	480	4,490	1,270	3,120	2,530	2,130	2,200	1,300
4	1,280	620	395	303	680	4,380	1,270	3,020	2,810	2,080	2,040	1,380
5	1,250	600	390	301	940	4,440	1,250	2,880	2,750	2,080	2,100	1,370
6	1,210	580*	380*	300	1,500B	4,440	1,170	2,700	2,710	2,080	2,040	1,350
7	1,190	570	380	299	2,350	4,330	1,170	2,490*	2,650	2,080	1,970	1,320
8	1,130	560	375	298	3,100	4,260	1,100	2,310	2,700	2,040	2,060	1,310
9	1,110	550	370	297	3,600	4,210	1,170	2,160	2,630	2,010	2,070	1,300
10	1,080	540	365	296	4,000	4,070	1,260	2,020	2,650	1,960	2,040	1,280
11	1,060	540	360	292	4,700	3,910	1,300	1,890	2,770	1,970	2,000	1,270
12	1,040	530	355	291	5,200	3,730	1,380	1,750	2,530	1,960	1,970	1,260
13	1,000	520	350	290	6,100	3,550	1,460	1,740	2,720	1,950	1,960	1,240
14	980	510	350	289	6,400	3,310	1,540	1,730	2,600	1,940	1,950	1,220
15	960	500	350	288	7,100	3,110	1,580	1,690	2,330	1,890	1,910	1,200
16	930	490	345	286	7,450	2,930	1,630	1,670	2,190	1,900	1,950B	1,170
17	910	480	345	283	8,200	2,720	1,640	1,620	2,370	1,870	1,840	1,150
18	890	480	340	282	9,000	2,580	1,630	1,710	2,470	1,960	1,830	1,130
19	860	470	340	281	9,300	2,430	1,570	1,730	2,250	1,960	1,810E	1,100
20	850	460	335	280	9,500	2,260	1,570	1,760	2,250	1,970	1,800	1,080
21	830	450	330	280	9,300	2,190	1,630	1,770	2,330	2,080	1,770	1,060
22	800	450	330	279	9,000	2,060	1,760	1,760	2,290	2,150	1,720	1,040
23	780	440	325	279	8,700	1,940	1,660	1,760	2,380	2,210	1,700	1,010
24	770	440	325	278	8,000	1,820	1,650	1,710	2,240	2,260	1,670	980
25	760	430	320	277	7,100	1,710	1,330	1,680	2,240	2,130	1,630	960
26	740	430	320	277	6,800	1,620	2,020	1,670	2,200	2,340	1,600	940
27	730	420	318	278	6,300	1,550	2,930	1,640	2,170	2,340	1,550	920
28	710	420E	316	279	6,000	1,540	2,650	1,600	2,190	2,330	1,520	890
29	700	--	314	280	5,500	1,510	2,820	1,560	2,210	2,260	1,490	870
30	680	--	312	281	5,300	1,440	3,030	1,520	2,210	2,280	1,470	840
31	670	--	311	--	5,000	--	3,210	1,490	--	2,220	--	830
MEAN	967E	514E	350	289	5,390	3,060	1,680	2,020	2,410	2,090	1,870E	1,150E
MAX.	1,400E	650E	410	310	9,500	4,710	3,210	3,260	2,810	2,340	2,200	1,440E
MIN.	670E	420E	311	277	283	1,440	1,100	1,490	1,710	1,870	1,470E	830E
M.F.C.	.529	.281	.191	.158	2.952	1.676	.922	1.106	1.318	1.145	1.022	.630

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

1,830 cfs

1,780 cfs

MAXIMUM

9,500 cfs on May 20

9,500 cfs on May 20, 1962

MAXIMUM INSTANTANEOUS

9,550 cfs on May 20 at 4 p.m.

9,550 cfs on May 20, 1962 at 4 p.m.

MINIMUM

277 cfs on April 25 and 26

277 cfs on April 25 and 26, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 6 and from November 16.

E - Estimated to February 28 and from November 19.

Stage discharge relation is extrapolated above 7,380 cfs and below 930 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

OPINACA

10.0 MI. UPSTREAM FROM THE GIARD RIVER

STATION NUMBER 090609

DRAINAGE AREA - 1350 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	800E	460E	390E	363E	960E	5,500I	1,470	2,460	991	1,400	1,580E	1,900E
2	780	460	390	361	1,080	5,810I	1,430	2,430	991	1,450	1,550	1,980B
3	760	460	389*	359	1,250	5,820I	1,420	2,430	991	1,550	1,530	2,050
4	740	450	388	358	1,600	5,820	1,470	2,430*	991	1,600E	1,510	2,180
5	730	445	387	358	2,200	5,800E	1,470	2,300	991	1,650	1,490	2,200
6	710	443	386	357	2,800	5,790	1,410	2,250	991	1,700	1,470	2,210
7	690	440	385	356	3,300	5,690	1,250	2,110	1,060	1,800	1,430	2,210
8	680	438	385	356	3,900	5,500	1,330	1,970	1,080	1,900	1,400	2,200
9	660	435	385	355	4,400	5,280	1,450	1,870	1,080	1,960	1,390	2,180
10	640	433	380	355	4,800B	5,000	1,470	1,750	1,080	2,000	1,370	2,100
11	630	432	380	355	5,100	4,800	1,480	1,680	1,080	2,050	1,350	2,050
12	620	430	380	355	5,400	4,450	1,490	1,580	1,080	2,080	1,330	2,000
13	600	420	380	355	5,600	4,190	1,500	1,530	1,080	2,070	1,310	1,900
14	590	420	379	358	5,800	3,880	1,500	1,490	1,080	2,060	1,300	1,850
15	580	420	378	363	5,950	3,550	1,610	1,400	1,080	2,050	1,290	1,750
16	570	420	377	370	6,050	3,250	1,680	1,380	1,090	2,040	1,280	1,700
17	560	420	376	374	6,300	3,000	1,640	1,290	1,090	2,020	1,260	1,600
18	550	418	376	380	6,400	2,800	1,650	1,290	1,090	2,000	1,250	1,550
19	540	415	375	390	6,450	2,650	1,970	1,240	1,130	1,980	1,240	1,500
20	530	415	375	410	6,400	2,650E	2,200	1,190	1,180	1,950	1,230	1,420
21	520	412	370	435	6,350	2,220	2,280	1,130	1,190I	1,900	1,240	1,350
22	510	410	370	460	6,200	2,130	2,250	1,100	1,200I	1,880	1,250	1,300
23	500	405	369	495	6,000	1,990	2,160	1,100	1,220I	1,830	1,270	1,230
24	500	403	368	520	5,800	1,910	2,100	1,040	1,230I	1,800	1,350	1,180
25	490	400	368	550	5,600	1,910	2,060	1,000	1,250I	1,780	1,420	1,120
26	490	398	367	600	5,300	1,840	1,950	991	1,260I	1,730	1,500	1,080
27	480	396	367*	670	5,200	1,740	1,950	916	1,280I	1,700	1,600	1,040
28	480	395	366	710	5,150	1,670	1,940	941	1,310I	1,680	1,700	1,000
29	470	--	366	750	5,180	1,570	2,020	991*	1,330	1,650	1,800	980
30	470	--	365	880	5,200E	1,560	2,240	991	1,300	1,630	1,850	950
31	460*	--	365	--	5,250	--	2,390	991	--	1,600	--	920E
MEAN	591E	425E	377E	445E	4,740E	3,660E	1,750	1,520	1,130	1,820E	1,420E	1,630E
MAX.	800E	460E	390E	880E	6,450E	5,820I	2,390	2,460	1,330	2,080E	1,850E	2,210E
MIN.	460*	395E	365E	355E	960E	1,560	1,250	916	991	1,400	1,230E	920F
M.F.C.	.361	.259	.230	.272	2.898	2.237	1.069	.932	.688	1.114	.866	.999

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

1,640 cfs

1,730 cfs

MAXIMUM

6,450E cfs on May 19

9,500 cfs on May 20, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

355E cfs, April 9 to 13

277 cfs on April 25 and 26, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 10 and from December 2.

I - Interpolated.

E - Estimated to May 30, June 5 to 20, and from October 4.

Stage discharge relation is extrapolated above 7,380 cfs and below 930 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

GIPOULOUX

2.2 MI. DOWNSTREAM FROM ELL LAKE

STATION NUMBER 090607

DRAINAGE AREA - 1210 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	4,000*	--	--	--	--	--
2	--	--	--	--	--	--	--	--	3,020*	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	5,750	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	2,250*	--	--	--
15	--	--	--	--	--	--	3,420*	--	--	2,300	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	5,770*	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	4,320	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	1,920*	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	3,310	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
Accuracy of records: good.

GIPOULOUX

2.2 MI. DOWNSTREAM FROM ELL LAKE

STATION NUMBER 090607

DRAINAGE AREA - 1210 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	7,370*	2,120	1,950	2,300	2,360	3,810E	2,810E
2	--	--	--	--	--	6,990	2,120	1,950	2,270	2,500E	3,690	2,800
3	--	--	--	--	--	6,460	2,000	2,010	2,230	2,510	3,580	2,770
4	--	--	--	--	--	6,030	1,950	2,040	2,150	2,530	3,570	2,700
5	--	--	--	--	--	5,660	1,990*	2,010	2,100	2,600	3,540	2,640
6	--	--	--	--	--	5,380	1,900I	2,020	2,100	2,770	3,510	2,600
7	--	--	--	--	--	5,130	1,810I	2,030	2,080	2,920	3,480	2,520
8	--	--	--	--	--	4,920	1,790I	1,980	2,060	3,040	3,430	2,500
9	--	--	--	--	--	4,680	1,790	1,950	2,050	3,180	3,380	2,450
10	--	--	--	--	--	4,450	1,750I	1,940	1,980	3,310	3,320	2,400
11	--	--	--	--	--	4,250	1,750I	1,950	1,960	3,470	3,250	2,310
12	--	--	--	--	--	4,250	1,750I	2,000	2,000	3,690	3,180	2,250
13	--	--	--	--	--	3,820	1,740I	2,040	1,990	3,860	3,140	2,200
14	--	--	--	--	--	3,580	1,730I	2,080	1,950	4,040	3,080	2,190
15	--	--	--	--	--	3,430	1,730I	2,070	1,950	4,160	3,000	2,100
16	--	--	--	--	--	3,280	1,730I	2,110	1,960	4,280	3,000B	2,050
17	--	--	--	--	--	3,150	1,730I	2,170	1,950	4,380	3,020	2,000
18	--	--	--	--	--	3,000I	1,730I	2,230	1,940	4,420	3,040	1,950
19	--	--	--	--	--	2,900I	1,730I	2,320	1,940	4,530	3,050	1,900
20	--	--	--	--	--	2,800I	1,730	2,350	1,940I	4,530	3,050	1,820
21	--	719*	--	--	--	2,720I	1,730	2,400	1,930I	4,530	3,050	1,800
22	--	--	--	--	--	2,720I	1,730	2,420	1,930I	4,510	3,050	1,740
23	--	--	--	--	--	2,590I	1,720	2,440	1,930I	4,480	3,050	1,700
24	--	--	--	--	--	2,500I	1,740	2,440	1,930I	4,440	3,050	1,670
25	--	--	--	--	--	2,460I	1,720	2,450	1,920I	4,400	3,030	1,610
26	--	--	--	--	--	2,390I	1,700	2,440	1,920	4,350	3,000	1,580
27	--	--	--	--	--	2,350I	1,740	2,340	1,930E	4,270	2,990	1,520
28	--	--	--	--	--	2,290	1,740	2,360	1,960	4,180	2,950	1,500
29	--	--	--	--	--	2,250	1,750	2,350	2,030	4,090	2,900	1,470
30	--	--	--	--	--	2,150	1,810	2,340	2,150E	4,020	2,850	1,420
31	--	--	--	--	7,770*	--	1,950	2,330	--	3,890	--	1,360
MEAN	--	--	--	--	--	3,870	1,800	2,180	2,020	3,750E	3,200E	2,080E
MAX.	--	--	--	--	--	7,370*	2,120	2,450	2,300	4,530E	3,810E	2,810E
MTN.	--	--	--	--	--	2,150	1,700	1,940	1,920I	2,360	2,850E	1,360E

FOR THE YEAR 1960

MEAN

--

MAXIMUM

7,770 cfs on May 31

MAXIMUM INSTANTANEOUS

7,990 cfs on May 31 at 11 a.m.

MINIMUM

719 cfs on February 21

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 16.

I - Interpolated.

E - Estimated September 27 to 30 and from October 2.

Stage discharge relation is extrapolated above 7,800 cfs and below 1,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Six discharge measurements were made in 1959.

GIPOULOUX

2.2 MI. DOWNSTREAM FROM ELL LAKE

STATION NUMBER 090607

DRAINAGE AREA - 1210 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,340E	870E	640E	500E	1,380E	4,200E	1,620	1,170	1,120	1,230	2,110	2,290E
2	1,300	860*	630	500	1,470	4,000	1,590	1,170	1,170	1,240	2,130	2,210B
3	1,290	850	630	500	1,550	3,800	1,550	1,170	1,200	1,240	2,240	2,190
4	1,250	840	620	500	1,650	3,600	1,530	1,160	1,200	1,240	2,250	2,140
5	1,220	830	620	500	1,730	3,500	1,520	1,120	1,200	1,260	2,380	2,100
6	1,210	820	610	500	1,820	3,300	1,500	1,120	1,230	1,260	2,470	2,050
7	1,200	810	600	500	1,900	3,150	1,500	1,120	1,250	1,330	2,560	2,000
8	1,190	800	590	500	1,980	3,000	1,490	1,060	1,260	1,370	2,630	1,990
9	1,170	800	580	490	2,050	2,800E	1,450	1,040	1,280	1,400	2,630	1,930
10	1,150	790	580	490	2,120	2,680*	1,420	1,030	1,280	1,430	2,640	1,900
11	1,120	780	570	500	2,200B	2,640	1,410	1,010*	1,280	1,470	2,670	1,850
12	1,100	770	570	510	2,250	2,590	1,410	991	1,280	1,500	2,690	1,820
13	1,090	760	560	520	2,330	2,450	1,390*	984	1,220	1,600	2,690	1,780
14	1,080	750	560	530	2,400	2,340	1,370	998	1,210	1,640	2,690	1,730
15	1,070	740	550	540	2,450	2,280	1,300	991	1,210	1,650	2,680	1,700
16	1,050	740	550	560	2,550	2,210	1,250	978	1,210	1,640	2,680	1,670
17	1,040	730	550	590	2,600	2,110	1,260	978	1,210	1,650	2,670	1,640
18	1,030	720	540	630	2,700	2,040	1,270	978	1,210	1,660	2,640	1,590
19	1,010	710	540	670	2,800	1,970	1,290*	991	1,210	1,660	2,640E	1,540
20	1,000	700	540	700	2,900	1,930	1,300	998	1,210	1,680	2,600	1,500
21	990	700	540	750	3,000	1,930	1,240	1,030	1,210	1,690	2,590	1,470
22	970	690	530	800	3,250	1,890	1,170	1,100	1,210	1,730	2,550	1,440
23	960	680	530	840	3,500	1,860	1,170	1,120	1,230	1,810	2,520	1,390
24	950	680	530	880	3,900	1,830	1,170	1,120	1,230	1,870	2,500	1,350
25	940	670	520	940	4,200	1,740	1,170	1,120	1,230	1,870	2,490	1,320
26	930	660	520	1,000	4,400	1,720	1,170	1,140	1,250	1,880	2,450	1,300
27	920	660	520	1,070	4,650	1,680*	1,170	1,160	1,240	1,940	2,400	1,290
28	910	650	520	1,150	4,700	1,650	1,170	1,160	1,240	2,070	2,380	1,240
29	900	--	520	1,220	4,600	1,620	1,170	1,150	1,230	2,110	2,350	1,220
30	890	--	510	1,300	4,500	1,620	1,170	1,120	1,230	2,110	2,300	1,200
31	880	--	510	--	4,350	--	1,180	1,120	--	2,110	--	1,190
MEAN	1,070E	752E	561E	689E	2,830E	2,470E	1,330	1,080	1,220	1,620	2,510E	1,680E
MAX.	1,340E	870E	640E	1,300E	4,700E	4,200E	1,620	1,170	1,280	2,110	2,690	2,290E
MIN.	880E	650E	510E	490E	1,380E	1,620	1,170	978	1,120	1,230	2,110	1,190E
M.F.C.	.718	.505	.376	.463	1.904	1.659	.896	.723	.822	1.090	1.684	1.127

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

1,490 cfs

1,490 cfs

MAXIMUM

4,700E cfs on May 28

7,770 cfs on May 31, 1960

MAXIMUM INSTANTANEOUS

7,790 cfs on May 31, 1960 at 11 a.m.

MINIMUM

490E cfs on April 9 and 10

490E cfs on April 9 and 10, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 11 and from December 2.

E - Estimated to June 9 and from November 19.

Stage discharge relation is extrapolated above 7,800 cfs and below 1,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

GIPOULOUX

2.2 MI. DOWNSTREAM FROM ELL LAKE

STATION NUMBER 090607

DRAINAGE AREA - 1210 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,140E	700E	540E	440E	390E	6,000	1,810	1,450	1,100E	1,510	1,420	1,040
2	1,120	690	535	440	392	5,750	1,740	1,460	1,200	1,490	1,390	1,040
3	1,090	690	530	440	400	5,580	1,680	1,450	1,530	1,490	1,420	1,040
4	1,070	670	525	435	420	5,360	1,620	1,460	1,700	1,490	1,410	1,040
5	1,060	665*	520	435	500	5,220	1,590	1,450	1,820	1,490	1,400	1,030B
6	1,040	660	515	435	590E	5,010	1,490	1,450	1,900	1,490	1,350	1,030
7	1,020	660	510	430	715	4,870	1,430	1,410	1,920	1,450	1,350	1,030
8	1,000	650	505	430	798	4,810	1,390	1,370*	1,930	1,410	1,350	1,030
9	980	640	505	425	925	4,660	1,410	1,330	1,920	1,410	1,350	1,030
10	960	640	500	425	1,040B	4,500	1,410	1,310	1,920	1,410	1,350	1,020
11	940	635	500	420	1,210	4,420	1,410	1,280	1,910	1,410	1,350	1,020
12	920	625	495	420	1,410	4,240	1,440	1,250	1,900	1,380	1,350	1,020
13	910	620	490	420	1,710	4,120	1,440	1,290	1,900	1,330	1,350	1,020
14	900	615	485	420	2,020	3,970	1,450	1,280	1,880	1,330	1,260	1,020
15	880	610	480	415	2,360	3,780	1,420	1,250	1,880	1,330	1,260	1,020
16	870	600	480	410	2,790	3,550	1,400	1,190	1,870	1,330	1,260	1,010
17	860	595	480	410	3,280	3,440	1,350	1,170	1,870	1,330	1,260	1,000
18	840	590	480	410	3,850	3,330	1,290	1,180	1,860	1,380	1,190	990
19	830	585	475	405	4,390	3,180	1,230	1,180	1,840	1,410	1,190	980
20	820	580	470	405	5,000	2,970	1,230	1,170	1,830	1,410	1,200	975
21	810	580	465	405	5,460	2,890	1,260	1,160	1,820	1,410	1,200	965
22	800	575	465	402	5,920	2,800	1,250	1,160	1,810	1,450	1,200	960
23	780	565	460	400	6,240	2,640	1,200	1,150	1,800	1,490	1,160	950
24	770	560	460	398	6,550	2,590	1,210	1,140	1,780	1,430	1,120	940
25	760	555	455	397	6,560	2,460	1,250	1,130E	1,770	1,420	1,120	925
26	750	550	455	396	6,600	2,350	1,290	1,120	1,760	1,500	1,120	910
27	740	550	450	395	6,730	2,300	1,340	1,150	1,720	1,500	1,120	905
28	730	545	445	393	6,730	2,110	1,380	1,100	1,700E	1,500	1,120	900
29	720	--	445	392	6,510	2,030	1,400	1,100	1,600	1,500	1,060	890
30	710	--	440	391	6,360	1,900	1,410	1,090	1,560	1,500	1,040	880
31	700	--	440	--	6,210	--	1,450	1,080	--	1,490	--	860
MEAN	888E	614E	484E	415E	3,360E	3,760	1,410	1,250E	1,770E	1,430	1,260	983
MAX.	1,140F	700F	540E	440E	6,730	6,000	1,810	1,460	1,930E	1,510	1,420	1,040
MIN.	700F	545F	440E	391E	390E	1,900	1,200	1,080E	1,100E	1,330	1,040	860
M.F.C.	.603	.417	.328	.281	2.281	2.555	.957	.849	1.200	.974	.854	.667

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 1,470 cfs

MAXIMUM 6,730 cfs on May 27 and 28

MAXIMUM INSTANTANEOUS 6,820 cfs on May 28 at 2 p.m.

MINIMUM 390E cfs on May 1

MINIMUM INSTANTANEOUS

1,480 cfs

7,770 cfs on May 31, 1960

7,990 cfs on May 31, 1960 at 11 a.m.

390E cfs on May 1, 1962

NOTES

* - Discharge measurement.

B - Ice effect to May 10 and December 5.

E - Estimated to May 6 and from August 25 to September 28.

Stage discharge relation is extrapolated above 7,800 cfs and below 1,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

GIPOULOUX

2.2 MI. DOWNSTREAM FROM ELL LAKE

STATION NUMBER 090607

DRAINAGE AREA - 1210 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	850	625	470	389	1,300	4,620	2,030	1,530	1,050C	1,090	1,140	1,400
2	840	615	465	388	1,400	4,620	1,930	1,490	1,060	1,120	1,140	1,420
3	840	605	460*	388	1,500	4,730	1,830	1,540	1,060	1,140	1,110	1,430
4	840	600	460	388	1,650	4,790	1,830	1,540	1,060	1,150	1,100	1,440
5	840	595	455	388	1,800	4,820	1,740	1,540	1,060	1,140	1,100	1,450
6	830	585	455	387	1,910	4,760	1,740	1,500	1,060	1,170	1,100	1,450
7	820	580	450	387	2,100	4,690	1,670	1,450	1,060	1,180	1,100	1,440
8	810	575	445	387	2,250	4,550	1,630	1,410	1,070	1,180	1,100	1,430
9	800	570	440	388	2,350	4,420	1,660	1,380	1,070	1,200	1,140	1,420
10	790	565	440	388	2,450	4,390	1,630	1,380	1,070	1,180	1,150	1,410
11	780	560	435	388	2,550	4,240	1,570	1,380	1,070	1,180	1,150	1,410
12	775	555	430	389	2,580	4,100	1,540	1,340	1,070	1,180	1,120	1,400
13	765	550	425	390	2,670	3,940	1,490	1,300	1,070	1,170	1,110	1,390
14	760	545	420	392	2,730	3,800	1,490	1,310	1,070	1,160	1,100	1,380
15	750	540	420	395	2,780	3,660	1,480	1,270	1,070	1,160	1,100	1,370
16	740	535	420	400	2,900	3,570	1,480	1,230	1,080	1,150	1,120	1,350
17	735	530	415	420	2,980	3,450	1,480	1,230	1,080	1,150	1,100	1,330
18	725	525	410	440	3,050	3,340	1,400	1,230	1,080	1,140	1,130	1,300
19	720	520	410	480	3,100	3,200	1,460	1,230*	1,080	1,140	1,100	1,280
20	710	515	405	530	3,150	3,080	1,470	1,160	1,080	1,130	1,100	1,250
21	700	510	405	575	3,350	2,960	1,460	1,160	1,080	1,120	1,110	1,220
22	695	505	400	610	3,420	2,840	1,400	1,130	1,090	1,110	1,120B	1,200
23	685	500	399	660	3,550	2,720	1,380	1,090	1,090	1,100	1,130	1,160
24	680	495	397	710B	3,750	2,630	1,380	1,090	1,090	1,100	1,140	1,140
25	675	490	395	740	3,850	2,530	1,380	1,080	1,090	1,100	1,150	1,110
26	665	485	393	800	3,950	2,420	1,380*	1,070	1,090	1,140	1,140	1,080
27	660	480	392*	860	4,100	2,330	1,370	1,070	1,090	1,140	1,150	1,050
28	655	475	391	970	4,300	2,300	1,440	1,060	1,090C	1,120	1,180	1,030
29	650	--	390	1,090	4,500	2,190	1,450	1,050*	1,080	1,130	1,300	1,000
30	640	--	389	1,180	4,550	2,110	1,490	1,050	1,070	1,130	1,380	980
31	635*	--	389	--	4,590	--	1,490	1,050C	--	1,140	--	960
MEAN	744	544	422	543	2,940	3,590	1,550	1,270	1,070E	1,140	1,140	1,280
MAX.	850	625	470	1,180	4,590	4,820	2,030	1,540	1,090C	1,200	1,380	1,450
MIN.	635*	475	389	387	1,300	2,110	1,370	1,050*	1,050C	1,090	1,100	960
M.F.C.	.547	.400	.310	.400	2.164	2.646	1.144	.934	.791	.842	.837	.942

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

1,360 cfs

1,440 cfs

MAXIMUM

4,820 cfs on June 5

7,770 cfs on May 31, 1960

MAXIMUM INSTANTANEOUS

4,840 cfs on June 4 at 3 p.m.

7,990 cfs on May 31, 1960 at 11 a.m.

MINIMUM

387 cfs on April 6, 7 and 8

387 cfs on April 6, 7 and 8, 1963

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to April 24 and from November 22.

C - By comparison with Opinaca and Giard Rivers, August 31 to September 28.

Stage discharge relation is extrapolated above 7,800 cfs and below 1,000 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

GIARD

AT OUTLET OF MENOUEW LAKE

STATION NUMBER 090606

DRAINAGE AREA - 840 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	1,470*	--	--	--	--	--
2	--	--	--	--	--	--	--	--	1,010*	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	2,550*	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	891*	--	--	--
14	--	--	--	--	--	--	1,810*	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	1,470	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	2,340*	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	1,380*	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	1,190*	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	1,650	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
Accuracy of records: fair.

GIARD

AT OUTLET OF MENOUEW LAKE

STATION NUMBER 090606

DRAINAGE AREA - 840 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	2,410	665	946*	1,090	1,370	1,880	1,490E
2	--	--	--	--	--	2,180	651	985	1,040	1,420	1,880	1,480
3	--	--	--	--	--	2,020	651	1,040	974	1,440	1,880	1,460
4	--	--	--	--	--	1,880	638	1,110	955	1,460	1,880	1,440
5	--	--	--	--	--	1,790	644*	1,170	918	1,520	1,880	1,430
6	--	--	--	--	--	1,670	651	1,200	871	1,750	1,880	1,400
7	--	--	--	--	--	1,550	658	1,170	863	1,960	1,840	1,380
8	--	--	--	--	--	1,480	672	1,150C	828	2,340	1,820	1,360
9	--	--	--	--	--	1,410	694	1,160	794	2,750	1,840	1,330
10	--	--	--	--	--	1,370	708	1,180	778	3,150	1,750	1,310
11	--	--	--	--	--	1,310	715	1,200	770	3,450	1,700	1,290
12	--	--	--	--	--	1,270	715	1,240	747	3,600	1,600	1,260
13	--	--	--	--	--	1,200	715	1,290	708	3,590	1,550	1,240
14	--	--	--	--	--	1,150	715	1,330	701	3,600	1,450	1,210
15	--	--	--	--	--	1,080	723	1,400	701	3,550	1,410	1,180
16	--	--	--	--	--	1,070	701	1,450	701	3,480	1,420B	1,160
17	--	--	--	--	--	1,050	701	1,500	715	3,350	1,450E	1,130
18	--	--	--	--	--	1,010	701	1,580	762	3,250	1,460	1,100
19	--	--	--	--	--	974	715	1,650	786	3,050	1,490	1,080
20	--	253*	--	240*	--	936	715	1,720	828	3,050	1,510	1,060
21	--	--	--	--	--	889	708	1,770	889	3,000	1,520	1,030
22	--	--	--	--	--	863	715	1,830	946	2,960	1,520	1,000
23	--	--	--	--	--	820	747	1,850C	995	2,820	1,520	990
24	--	--	--	--	--	803	723	1,840	1,060	2,750	1,520	960
25	--	--	--	--	--	770	715	1,700	1,110	2,560	1,520	930
26	--	--	--	--	--	723	731	1,580	1,160*	2,450	1,520	920
27	--	--	--	--	--	708	747	1,490	1,190	2,330	1,520	900
28	--	--	--	--	--	708	739	1,390	1,230	2,160	1,510	880
29	--	--	--	--	--	701	754	1,290	1,290	2,080	1,510	860
30	--	--	--	--	2,970*	694	794	1,190	1,350	1,990	1,500	830
31	--	--	--	--	2,720	--	899	1,150	--	1,930	--	810
MEAN	--	--	--	--	--	1,220	710	1,370E	925	2,590	1,620E	1,160E
MAX.	--	--	--	--	--	2,410	899	1,850C	1,350	3,600	1,880	1,490E
MIN.	--	--	--	--	--	694	638	946*	701	1,370	1,410	810E

FOR THE YEAR 1960

MEAN

--

MAXIMUM

3,600 cfs on October 12 and 14

MAXIMUM INSTANTANEOUS

3,890 cfs on October 14 at 5 p.m.

MINIMUM

240 cfs on April 20

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 16.

C - By comparison with Gipouloux River August 8 to 23.

E - Estimated from November 17.

Stage discharge relation is extrapolated above 3,090 cfs and below 410 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Eight discharge measurements were made in 1959.

GIARD

AT OUTLET OF MENOUOW LAKE

STATION NUMBER 090606

DRAINAGE AREA - 840 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	770E	367E	298E	262E	1,380E	1,750	1,300	871	644	1,160C	1,880C	1,980E
2	750	365	297	261	1,420	1,600	1,320	863	679	1,180	1,900	1,950B
3	725	360	295	261	1,500	1,460	1,370	846	770	1,200	1,940	1,910
4	700	358	293	260	1,540	1,410	1,380	820	794	1,240	2,000	1,900
5	690	355	292	258	1,600	1,300	1,410	786	803	1,260	2,100	1,860
6	670	350	291	257	1,650	1,210	1,420	770	837	1,280	2,200	1,820
7	655	348	290	256	1,720	1,170	1,410	747	880	1,320	2,300	1,800
8	640	342	289	254	1,800	1,090	1,410	701	927	1,350	2,350	1,750
9	625	340	288	253	1,900	1,040	1,350	679	965	1,380	2,360	1,700
10	600	335	287	252	2,050	974	1,320	644	1,020	1,420	2,360	1,650
11	585	332	286	251	2,250	936	1,250*	631	1,020	1,440	2,350	1,600
12	570	330	285	251	2,500	908	1,140	625	965	1,480	2,320	1,590
13	555	328	284	255	2,700	863	1,110	625	965	1,500	2,300	1,540
14	545	325	283	260	2,950	828	1,050	593	965*	1,510	2,260	1,500
15	530	323	282	263	3,150	778	985	593	889	1,530	2,240	1,460
16	515	320	281	275	3,350	786	936	580	871	1,550	2,210	1,420
17	500	319	280	290	3,500	778	918	580*	880	1,580	2,200	1,400
18	490	318	279	325	3,700	786	946	563	927	1,600	2,190	1,350
19	480	315	277	370	3,800	803	965	593	936	1,610	2,180	1,320
20	465	312	275	430	3,900	837	955	593	918	1,630	2,160	1,300
21	455	311	273	520	3,980	889	965	625	965	1,650	2,150	1,260
22	445	310	272	630	3,900	899	965*	658	974	1,670	2,130	1,250
23	435	309	271	700	3,750	946	995	694	1,010	1,680	2,120	1,200
24	420	308	270	800	3,500	985	1,020	694	1,080	1,690	2,100	1,180
25	410	307	268	900	3,200	1,030	1,020	658	1,130	1,700	2,090	1,150
26	400	306	267	1,030	2,950	1,080	1,010	723	1,140	1,710	2,060	1,100
27	390	302	265	1,130	2,750	1,110	965	723	1,150C	1,740	2,050	1,070
28	385	300	264	1,200	2,550	1,160*	927	723	1,150	1,760	2,020	1,050
29	375*	--	263	1,280	2,300	1,190	927	723	1,150	1,790	2,000	1,020
30	372	--	262	1,340B	2,100	1,260	889	687	1,150	1,810	1,990C	990
31	368	--	261	--	1,900E	--	871	650	--	1,840	--	970
MEAN	533E	328E	280E	502E	2,620E	1,060	1,110	686	952	1,520E	2,150E	1,450E
MAX.	770E	367E	298E	1,340E	3,980E	1,750	1,420	871	1,150C	1,840C	2,360C	1,980E
MIN.	368F	300E	261E	251E	1,380E	778	871	563	644	1,160C	1,880C	970F
M.F.C.	.481	.296	.252	.454	2.369	.960	1.006	.620	.860	1.378	1.944	1.313

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

1,110 cfs

1,110 cfs

MAXIMUM

3,980E cfs on May 21

3,980E cfs on May 21, 1961

MAXIMUM INSTANTANEOUS

MINIMUM

251E cfs on April 11 and 12

240 cfs on April 20, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to April 30 and from December 2.

C - By comparison with Opinaca and Gipouloux Rivers, September 27 to November 30.

E - Estimated to May 31 and from December 1.

Stage discharge relation is extrapolated above 3,090 cfs and below 410 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

GIARD

AT OUTLET OF MENOUEW LAKE

STATION NUMBER 090606

DRAINAGE AREA - 840 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	925E	350E	176E	134E	145E	2,900E	723	1,760	936	1,100	1,260	580E
2	890	340	174	134	150	2,800	679	1,950	955	1,030	1,250	580
3	860	330	170	133*	168	2,650	665	2,020	1,030	946	1,150	580
4	840	320	168	133	182	2,550	651	2,070	1,100	946	1,150	580
5	810	310	166	132	200	2,450	618	2,050	1,180	946	1,140	580B
6	780	305*	163*	131	230	2,400E	599	1,950	1,270	854	1,040	580
7	760	295	160	130	285	2,250	580	1,820*	1,350	854	1,040	580
8	730	290	158	129	380	2,150	569	1,670	1,460	854	1,020	577
9	710	283	156	129	600	2,100	606	1,550	1,520	786	936	575
10	690	278	154	128	900	2,040	612	1,440	1,520	770	936	572
11	665	270	153	128	1,500B	1,950	618	1,340	1,500	770	918	570
12	645	263	151	128	2,000	1,880	625	1,210	1,450	770	846	568
13	625	250	150	128	2,500	1,840	631	1,240	1,390	762	846	567
14	600	252	149	127	3,000	1,700	631	1,190	1,370	694	837	565
15	590	246	148	128	3,600	1,580	644	1,160	1,290	694	762	563
16	570	240	147	128	4,400	1,460	658	1,140	1,260	694	754	560
17	545	235	146	128	5,000	1,370	644	1,120	1,240	694	687	558
18	535	230	145	128	5,400	1,300	618	1,140	1,210	694	687	555
19	520	223	144	128	5,600	1,230	599	1,150	1,190	770	687	550
20	500	220	143	128	5,600	1,150	574	1,170	1,150	786	679	548
21	485	215	142	128	5,400	1,090	580	1,160	1,160	889	679	545
22	470	210	140	128	5,000	1,030	552	1,160	1,200	995	679	540
23	455	205	139	128	4,700	1,010	546	1,140	1,230	1,110	651	535
24	440	200	138	128	4,400	946	535	1,100	1,260	1,250	612	530
25	430	195	137	128	4,100	918	552	1,050	1,270	1,320	600E	525
26	420	192	136	129	3,900	854	612	1,030	1,230	1,390	595	520
27	400	188	136	130	3,650	811	687	1,020	1,450	1,450	590	515
28	390	183	135	133	3,500	794	794	995	1,410	1,520	588	505
29	380	--	135	136	3,300	778	955	936	1,190	1,410	585	500
30	370	--	134	140	3,100	739	1,210	908	1,110	1,390	583	497
31	360	--	134	--	3,000	--	1,530	846	--	1,390	--	495
MEAN	593E	254E	149E	130E	2,770E	1,620E	681	1,340	1,260	985	826E	551E
MAX.	925E	350E	176E	140E	5,600E	2,900E	1,530	2,070	1,520	1,520	1,260	580E
MIN.	360E	183E	134E	127E	145E	739	535	846	936	694	583E	495E
M.F.C.	.634	.271	.159	.138	2.961	1.735	.727	1.430	1.349	1.052	.883	.589

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

936 cfs

1,020 cfs

MAXIMUM

5,600E cfs on May 19 and 20

5,600E cfs on May 19 and 20, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

127E cfs on April 14

127E cfs on April 14, 1962.

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 11 and from December 5.

E - Estimated to June 6 and from November 25.

State discharge relation is extrapolated above 3,090 cfs and below 410 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

GIARD

AT OUTLET OF MENUOW LAKE

STATION NUMBER 090606

DRAINAGE AREA - 840 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	485E	335F	235	157	3,050	2,740	708	1,500	546	638	606	840E
2	480	330	230	156	3,530	2,740	694	1,550	519	679	599	900
3	475	328	228	156	3,980	2,720	672	1,640	519	701	593	970
4	470	322	226*	155	4,240	2,720	644	1,640	524	731	535	1,020
5	460	320*	222	154	4,430	2,720	631	1,640	524	770	535	1,050
6	455	315	220	153	4,660	2,660	599	1,640	530	820	530	1,070
7	450	310	218	153	4,720	2,520	586	1,620	530	854	530	1,080
8	445	305	213	152	4,720	2,490	557	1,500	535	936	524	1,070
9	440	303	210	152	4,410	2,280	574	1,410	540	927	524	1,060
10	435	300	208	152	4,160	2,100	651	1,350	540	974	540	1,050
11	430	297	205	152	3,820	1,950	687	1,230	546	1,020	519	1,020B
12	425	292	202	151	3,510	1,790	708	1,210	546	1,020	514	1,000
13	420	290	200	151	3,270	1,700	731	1,110	552	1,010	514	980
14	415	287	198	152	3,080	1,600	754	1,110	509	995	509	960
15	405	282	195	153	3,050	1,460	778	1,030	514	899	530	940
16	400	280	193	155	3,050	1,340	811	1,010	552	899	504	920
17	397	275	190	160	3,080	1,310	837	1,010	563	889	504	900
18	392	272	188	168	3,190	1,200	863	908	563	889	499	870
19	390	270	185	180	3,320	1,200	927	908	569	794	499	850
20	385	265	182	200	3,560	1,100	1,020	899	569	794	495	820
21	380	260	180	240	3,700	1,070	1,050	820	574	715	492	800
22	375	258	178	280	3,850	974	1,140	778	580	708	490	780
23	370	255	175	340	3,930	955	1,240	739	580	701	490	760
24	365	252	172	430	3,880	871	1,270	665	586	701	495E	740
25	360	250	170	550	3,850	871	1,310	658	586	694	510	720
26	355	245	168	760B	3,600	871	1,350	651	593	658	540	700
27	350	242	165*	889	3,440	828	1,370	638	593	618	580	680
28	348	240E	162	1,410	3,340	778	1,370	631	599	618	640	660
29	345	--	160	1,930	3,140	778	1,370	599*	638	612	690	650
30	340	--	159	2,450	2,950	770	1,370	563	644	612	760	630
31	338	--	158	--	2,990	--	1,440	569	--	606	--	610E
MEAN	406E	285E	193	415	3,660	1,640	926	1,070	559	790	543E	874E
MAX.	485E	335F	235	2,450	4,720	2,740	1,440	1,640	644	1,020	760E	1,080E
MIN.	338F	240F	158	151	2,950	770	557	563	509	606	490	610E
M.F.C.	.425	.298	.202	.434	3.838	1.715	.970	1.123	.585	.827	.569	.916

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

954 cfs

999 cfs

MAXIMUM

4,720 cfs on May 7 and 8

5,600E cfs on May 19 and 20, 1962

MAXIMUM INSTANTANEOUS

4,750 cfs on May 6 at 1 p.m.

MINIMUM

151 cfs on April 12 and 13

127E cfs on April 14, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to April 26 and from December 11.

E - Estimated to February 28 and from November 24.

Stage discharge relation is extrapolated above 3,090 cfs and below 410 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

RAPIN

0.7 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090603

DRAINAGE AREA - 40 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	127	305	12.7	74.9	--	--
2	--	--	--	--	--	--	93.3	324	15.2	70.1	--	--
3	--	--	--	--	--	--	73.9*	309 *	32.4	57.6	--	--
4	--	--	--	--	--	--	62.0*	249	45.6	58.5	--	--
5	--	--	--	--	--	--	95.5	251	39.8	56.8*	--	--
6	--	--	--	--	--	--	329 *	224	42.6	51.9	--	--
7	--	--	--	--	--	--	288	163	49.5	42.6	--	--
8	--	--	--	--	--	62.8*	199	111	44.9*	36.3	--	--
9	--	--	--	--	--	52.7	149	75.9	49.5	43.4	--	--
10	--	--	--	--	--	165 *	120 I	52.7*	39.8	50.3	--	--
11	--	--	--	--	--	--	93.3*	40.5	44.9	82.8	--	--
12	--	--	--	--	--	--	77.8	61.1	43.4	127	--	--
13	--	--	--	--	--	--	62.0*	89.0	39.8	--	--	--
14	--	--	--	--	--	--	49.5	97.7	39.1	--	--	--
15	--	--	--	--	--	251 *	40.5	78.8	35.0	--	--	--
16	--	--	--	--	--	185 *	38.4	62.8	33.0*	--	--	--
17	--	--	--	--	--	123	40.5	45.6*	48.7	--	--	--
18	--	--	--	--	--	98.8*	33.0	40.5	76.8	--	--	--
19	--	--	--	--	--	80.8	31.0I	41.2	72.0	--	--	--
20	--	--	--	--	--	54.3	29.9*	38.4	62.0	--	--	--
21	--	--	--	--	--	43.4	24.1	36.3	54.3	--	--	--
22	--	--	--	--	--	43.4*	33.7	26.9	52.7*	--	--	--
23	--	--	--	--	--	35.0*	64.6*	20.9	56.0	--	--	--
24	--	--	--	--	--	33.0	136	23.5*	53.5	--	--	--
25	--	--	--	--	--	31.1	172	17.0	73.0	--	--	--
26	--	--	--	--	--	28.7	260	22.4	62.0	--	--	--
27	--	--	--	--	--	26.9	282	24.6	67.4	--	--	--
28	--	--	--	--	--	37.0	242	25.7	74.9*	--	--	--
29	--	--	--	--	--	102	182	17.9	71.1	--	--	--
30	--	--	--	--	--	137 *	234	14.3	73.0	--	--	--
31	--	--	--	--	--	--	276	15.6*	--	--	--	--
MEAN	--	--	--	--	--	--	127	93.7	50.2	--	--	--
MAX.	--	--	--	--	--	--	329 *	324	76.8	--	--	--
MIN.	--	--	--	--	--	--	24.1	14.3	12.7	--	--	--

FOR THE YEAR 1959

MEAN

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MAXIMUM

329 cfs on July 6

MAXIMUM INSTANTANEOUS

357 cfs on July 6 at 8.30 a.m.

MINIMUM

12.7 cfs on September 1

MINIMUM INSTANTANEOUS

9.32 cfs on September 2 at 4 a.m.

NOTES

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 330 cfs and below 13 cfs.

Accuracy of records: fair.

RAPIN

0.7 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090603

DRAINAGE AREA - 40 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	26.3	72.0	--	--
2	--	--	--	--	--	--	--	--	33.0	--	--	--
3	--	--	--	--	--	--	--	--	31.1	--	--	--
4	--	--	--	--	--	--	--	74.9 *	27.5	--	--	--
5	--	--	--	--	--	--	--	65.5	24.1	--	--	--
6	--	--	--	--	--	--	--	52.7	23.5	--	--	--
7	--	--	--	--	--	--	--	45.6	26.9	--	--	--
8	--	--	--	--	--	--	--	--	31.1	--	--	--
9	--	--	--	--	--	--	--	--	29.3 *	--	--	--
10	--	--	--	--	--	--	--	--	27.5	--	--	--
11	--	--	--	--	--	--	--	--	33.0	--	--	--
12	--	--	--	--	--	--	--	--	40.5	--	--	--
13	--	--	--	--	--	--	--	--	41.2	--	--	--
14	--	--	--	--	--	--	--	--	42.6	--	--	--
15	--	--	--	--	--	--	--	--	62.0	--	--	--
16	--	--	--	8.00E	--	--	--	56.0	71.1	--	--	--
17	--	--	--	--	--	--	--	47.1	69.2	--	--	--
18	--	--	--	--	--	--	--	37.7	75.9	--	--	--
19	--	6.00E	--	--	--	--	--	29.9	80.8	--	--	--
20	--	--	--	--	--	--	24.1 *	24.6	70.1	--	--	--
21	--	--	--	--	--	--	--	21.4	58.5	--	--	--
22	--	--	--	--	--	--	--	18.9	52.7	--	--	--
23	--	--	--	--	--	--	41.2	17.0	54.3	--	--	--
24	--	--	--	--	--	--	--	17.0	55.1	--	--	--
25	--	--	--	--	--	13.9 *	--	15.6	85.9	--	--	--
26	--	--	--	--	--	--	--	14.7	107	--	--	--
27	--	--	--	--	--	--	--	15.6	116	--	--	--
28	--	--	--	--	--	--	--	16.5	109	--	--	--
29	--	--	--	--	--	--	--	17.0	93.3	--	--	--
30	--	--	--	--	--	--	--	16.1	80.8	--	--	--
31	--	--	--	--	--	--	--	17.4	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	56.0	--	--	--
MAX.	--	--	--	--	--	--	--	--	116	--	--	--
MIN.	--	--	--	--	--	--	--	--	23.5	--	--	--

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

116 cfs on September 27

329 cfs on July 6, 1959

MAXIMUM INSTANTANEOUS

119 cfs on September 27 at 6 p.m.

357 cfs on July 6, 1959 at 8.30 a.m.

MINIMUM

6.00E cfs on February 19

6.00E cfs on February 19, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

E - Estimated on February 19 and April 16.

Stage discharge relation is extrapolated above 330 cfs and below 13 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

RAPIN

0.7 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090603

DRAINAGE AREA - 40 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	54.3	25.7	21.9	--	--	--
2	--	--	--	--	--	--	44.1	23.0	54.3	--	--	--
3	--	--	--	--	--	--	38.4	21.9	159	--	--	--
4	--	--	--	--	--	--	35.6	23.5	144	--	--	--
5	--	--	--	--	--	--	36.3	20.9	119	--	--	--
6	--	--	--	--	--	--	39.8	17.9	90.1	--	--	--
7	--	--	--	--	--	--	34.3	16.1	70.1	--	--	--
8	--	--	--	--	--	--	29.3	17.4	55.1	--	--	--
9	--	--	--	--	--	23.5	25.2	17.4	51.1	--	--	--
10	--	--	--	--	--	--	21.4	17.4	48.7	--	--	--
11	--	--	--	--	--	--	19.9	15.6	--	--	--	--
12	--	--	--	--	--	--	17.9	14.7	--	--	--	--
13	--	--	--	--	--	--	17.0	19.4	--	--	--	--
14	--	--	--	--	--	--	15.2	21.9	--	--	--	--
15	--	--	--	--	--	--	14.3	21.4	--	--	--	--
16	--	--	--	--	--	--	13.5	20.4	--	--	--	--
17	--	--	--	--	--	--	13.9	18.9	--	--	--	--
18	--	--	--	--	--	--	15.6	44.1	--	--	--	--
19	--	--	--	--	--	--	--	65.5	--	--	--	--
20	--	--	--	--	--	--	--	66.4	--	--	--	--
21	--	--	--	--	--	--	--	51.9	--	--	--	--
22	--	--	--	--	--	--	--	40.5	--	--	--	--
23	--	--	--	--	--	33.7*	--	31.7	--	--	--	--
24	--	--	--	--	--	--	--	24.6	63.7	--	--	--
25	--	--	--	--	--	--	--	20.4	--	--	--	--
26	--	--	--	--	--	--	--	17.4	--	--	--	--
27	--	--	--	--	--	--	27.5*	15.2	--	--	--	--
28	--	--	--	--	--	--	25.2	18.4	--	--	--	--
29	--	--	--	--	--	--	27.5	39.1	--	--	--	--
30	--	--	--	--	--	--	29.3	29.9	--	--	--	--
31	--	--	--	--	--	--	28.7	26.3	--	--	--	--
MEAN	--	--	--	--	--	--	--	26.6	--	--	--	--
MAX.	--	--	--	--	--	--	--	66.4	--	--	--	--
MIN.	--	--	--	--	--	--	--	14.7	--	--	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

159 cfs on September 3

329 cfs on July 6, 1959

MAXIMUM INSTANTANEOUS

273 cfs on September 2 at midnight

357 cfs on July 6, 1959 at 8.30 a.m.

MINIMUM

13.5 cfs on July 16

6.00E cfs on February 19, 1960

MINIMUM INSTANTANEOUS

12.7 cfs on July 17 at 10 a.m.

NOTES

* - Discharge measurement.

Stage discharge relation is extrapolated above 330 cfs and below 13 cfs.

Accuracy of records: good.

RAPIN

0.7 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090603

DRAINAGE AREA - 40 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	11.5	49.5	99.9	28.7	--	--
2	--	--	--	--	--	--	11.1	47.1	114	28.7	--	--
3	--	--	--	--	--	--	10.4	48.7	107	28.7	--	--
4	--	--	--	--	--	--	10.0	47.9	84.9	23.0	--	--
5	--	--	--	--	--	--	9.70	39.1	127	23.0	--	--
6	--	--	--	--	--	--	10.0	31.7	125 I	23.0	--	--
7	--	--	--	--	--	--	10.4	25.7	116	23.0	--	--
8	--	--	--	--	--	--	13.5	21.9	94.4	21.4	--	--
9	--	--	--	--	--	--	64.6	19.4	78.8	17.9	--	--
10	--	--	--	--	--	--	64.6	17.0	70.1	17.9	--	--
11	--	--	--	--	--	--	50.3	16.1	65.5	17.9	--	--
12	--	--	--	--	--	29.9	37.7	14.7	61.1	41.9	--	--
13	--	--	--	--	--	26.9	43.4	37.7	59.4	85.9	--	--
14	--	--	--	--	--	24.1	85.9	52.7	66.4	94.4	--	--
15	--	--	--	--	--	21.9	88.0	51.1	78.8	80.8	--	--
16	--	--	--	--	--	25.2	67.4	41.9	84.9	116	--	--
17	--	--	--	--	--	25.2	51.1	43.4	84.9	179	--	--
18	--	--	--	--	--	23.5	39.1	61.1	92.2	171	--	--
19	--	--	--	--	--	21.4	31.1	71.1	109	159	--	--
20	--	--	--	--	--	19.4	26.3	64.6	102 I	155	--	--
21	--	--	--	--	--	17.9	27.5	51.1	91.0 I	145	--	--
22	--	--	--	--	--	16.5	28.7	41.9	81.0 I	132	--	--
23	--	--	--	--	--	16.1	24.6	33.7	70.5 I	125	--	--
24	--	--	--	--	--	15.2	21.9	28.1	63.0 I	110	--	--
25	--	--	--	--	--	13.5	35.6	25.2	57.0 I	94.4	--	--
26	--	--	--	--	--	12.7	74.9	23.5	50.3	80.8	--	--
27	--	--	--	--	--	11.5	93.3	21.9	45.6 *	71.1	--	--
28	--	--	--	--	--	11.9	78.8	19.4	41.9	57.6	--	--
29	--	--	--	--	--	12.3	66.4	17.9	36.3	53.5	--	--
30	--	--	--	--	--	12.7	55.1	17.0	33.7	49.5	--	--
31	--	--	--	--	--	--	52.7	17.4	--	49.5	--	--
MEAN	--	--	--	--	--	--	41.8	35.5	79.7	74.3	--	--
MAX.	--	--	--	--	--	--	93.3	71.1	127	179	--	--
MIN.	--	--	--	--	--	--	9.70	14.7	33.7	17.9	--	--

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

179 cfs on October 17

329 cfs on July 6, 1959

MAXIMUM INSTANTANEOUS

187 cfs on October 17 at 3 a.m.

357 cfs on July 6, 1959 at 8.30 a.m.

MINIMUM

9.70 cfs on July 5

6.00E cfs on February 19, 1960

MINIMUM INSTANTANEOUS

9.32 cfs on July 6 at 6 a.m.

NOTES

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 330 cfs and below 13 cfs.

Accuracy of records: fair.

RAPIN

0.7 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090603

DRAINAGE AREA - 40 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	291	47.9	15.6	--	19.9	37.7	--	--
2	--	--	--	--	201	78.8	17.0	--	19.9	41.2	--	--
3	--	--	--	--	224	94.4	18.4	--	19.9	44.9	--	--
4	--	--	--	--	224	97.7	21.4	39.8	19.9	40.5	--	--
5	--	--	--	--	174	73.0	21.4	33.0	19.9	37.7	--	--
6	--	--	--	--	123	67.4	20.9	27.5	17.0	37.7	--	--
7	--	--	--	--	94.4	48.7	19.9	24.1	15.2	37.7	--	--
8	--	--	--	--	75.9	40.5	15.6	24.1	18.4	37.7	--	--
9	--	--	--	--	75.9	35.0	16.5	24.1	24.1	37.7	--	--
10	--	--	--	--	64.6	29.3	17.9	24.1	26.3	36.3	--	--
11	--	--	--	--	51.1	27.5	15.2	19.9	31.1	31.1	--	--
12	--	--	--	--	57.6	23.5	15.2	18.9	31.1	31.1	--	--
13	--	--	--	--	75.9	21.9	15.2	19.4	31.1	25.2	--	--
14	--	--	--	--	75.9	21.9	18.4	19.4	25.7	25.2	--	--
15	--	--	--	--	69.2	17.9	47.9	19.4	25.2	25.2	--	--
16	--	--	--	--	68.3	18.4	39.1	19.4	21.9	--	--	--
17	--	--	--	--	68.3	20.9	29.9	19.4	24.1	--	--	--
18	--	--	--	--	70.1	20.4	26.3	19.4	26.3	--	--	--
19	--	--	--	--	75.9	20.4	50.3	15.6	38.4	--	--	--
20	--	--	--	--	88.0	16.1	--	15.6	44.9	--	--	--
21	--	--	--	--	96.6	15.2	--	23.0	43.4	--	--	--
22	--	--	--	--	96.6	14.7	--	24.1	37.7	--	--	--
23	--	--	--	--	82.8	14.7	--	19.9	32.4	--	--	--
24	--	--	--	--	68.3	14.3	--	19.9	28.1	--	--	--
25	--	--	--	--	59.4	17.9	--	15.6	25.2	--	--	--
26	--	--	--	--	57.6	18.4	--	15.2	28.1	--	--	--
27	--	--	--	--	51.1	18.4	--	15.2	37.0	--	--	--
28	--	--	--	--	49.5	17.9	--	14.3	37.7	--	--	--
29	--	--	--	--	49.5	17.9	--	18.4	37.7	--	--	--
30	--	--	--	--	49.5	16.5	--	25.2*	37.7	--	--	--
31	--	--	--	--	49.5	--	--	23.5	--	--	--	--
MEAN	--	--	--	--	95.4	32.9	--	--	28.2	--	--	--
MAX.	--	--	--	--	291	97.7	--	--	44.9	--	--	--
MIN.	--	--	--	--	49.5	14.3	--	14.3	15.2	--	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

291 cfs on May 1

329 cfs on July 6, 1959

MAXIMUM INSTANTANEOUS

355 cfs on May 1 at 1 a.m.

357 cfs on July 6, 1959 at 8.30 a.m.

MINIMUM

14.3 cfs on June 24 and August 28

6.00E cfs on February 19, 1960

MINIMUM INSTANTANEOUS

13.1 cfs on August 28 at 10 a.m.

NOTES

* - Discharge measurement.

Stage discharge relation is extrapolated above 330 cfs and below 13 cfs.

Accuracy of records: good.

CLEARWATER

0.6 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090604

DRAINAGE AREA - 808 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	1,890*	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	2,310*	2,900*	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	1,300*	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	1,620*	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	1,890*	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	2,300	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	2,620*	--	--	1,350*	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	2,170	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
 Accuracy of records: good.

CLEARWATER

0.6 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090604

DRAINAGE AREA - 808 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	3,320I	1,470	1,360	1,030	1,410E	1,910E	1,610E
2	--	--	--	--	--	3,230I	1,470*	1,410	1,110	1,370	1,910	1,600
3	--	--	--	--	--	3,130I	1,440	1,430	1,130	1,340	1,920	1,570
4	--	--	--	--	--	3,030*	1,430	1,370	1,110	1,330	1,920	1,540
5	--	--	--	--	--	2,940	1,410	1,370	1,080	1,350	1,910	1,500
6	--	--	--	--	--	2,890	1,410	1,350E	1,110	1,400	1,920	1,480
7	--	--	--	--	--	2,820	1,370	1,330	1,100	1,540	1,950	1,460
8	--	--	--	--	--	2,750	1,340	1,320	1,070	1,600	1,950	1,420
9	--	--	--	--	--	2,610	1,310	1,330	1,070	1,620	1,920	1,380
10	--	--	--	--	--	2,510	1,280	1,350	1,050	1,620	1,900	1,360
11	--	--	--	--	--	2,450	1,260	1,390	1,060	1,620	1,890	1,330
12	--	--	--	--	--	2,390	1,220	1,420	1,050	1,670	1,860	1,300
13	--	--	--	--	--	2,300	1,200	1,440	1,010	1,710	1,820	1,270
14	--	--	--	--	--	2,240	1,200	1,490	1,030	1,730	1,770	1,240
15	--	--	--	--	--	2,190	1,150	1,520	1,010	1,730	1,700	1,200
16	--	--	--	--	--	2,160	1,110	1,530	1,040	1,720	1,690E	1,180
17	--	--	--	--	--	2,140	1,100	1,550	1,040	1,720	1,680	1,150
18	--	486*	--	--	--	2,030	1,090	1,580	1,020	1,750	1,680	1,120
19	--	--	--	342*	--	1,980	1,070	1,590	1,070*	1,820	1,680	1,100
20	--	--	--	--	--	1,950	1,120	1,590	1,080	1,910	1,680	1,070
21	--	--	--	--	--	1,900	1,090	1,570	1,070	1,950	1,690	1,040
22	--	--	--	--	--	1,820	1,090	1,540	1,080	1,950	1,690	1,000
23	--	--	--	--	--	1,740	1,100	1,490	1,080	1,930	1,690	990
24	--	--	--	--	--	1,720	1,120	1,410	1,080	1,910	1,690	960
25	--	--	--	--	--	1,640	1,090	1,370	1,140	1,920	1,690	930
26	--	--	--	--	--	1,600	1,110	1,300	1,270	1,920	1,680	900
27	--	--	--	--	--	1,570	1,150	1,230	1,340	1,900	1,670	870
28	--	--	--	--	--	1,510	1,140	1,170E	1,380	1,890	1,660	840
29	--	--	--	--	--	1,500	1,140	1,120	1,390	1,880	1,640	810
30	--	--	--	--	--	1,480	1,170	1,020*	1,400	1,870	1,630	790
31	--	--	--	--	--	--	1,270	994	--	1,890	--	760E
MEAN	--	--	--	--	--	2,250	1,220	1,380E	1,120	1,710E	1,780E	1,190E
MAX.	--	--	--	--	--	3,320I	1,470	1,590E	1,400	1,950E	1,950E	1,610E
MIN.	--	--	--	--	--	1,480	1,070	994	1,010	1,330E	1,630E	760E

FOR THE YEAR 1960

MEAN

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MAXIMUM

3,320I cfs on June 1

MAXIMUM INSTANTANEOUS

MINIMUM

342 cfs on April 19

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 16.

I - Interpolated.

E - Estimated August 6 to 28 and from October 1.

Stage discharge relation is extrapolated above 3,090 cfs and below 628 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Eight discharge measurements were made in 1959.

CLEARWATER

0.6 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090604

DRAINAGE AREA - 808 SQ. MI.

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	1,190	769	--	--	--	--
2	--	--	--	--	--	--	1,190	734	--	--	--	--
3	--	--	--	--	--	--	1,230	717	--	--	--	--
4	--	--	--	--	--	--	1,210	692	--	--	--	--
5	--	--	--	--	--	--	1,190	692	--	--	--	--
6	--	--	--	--	--	--	1,180	692	--	--	--	--
7	--	--	--	--	--	--	1,170	688	--	--	--	--
8	--	--	--	--	--	--	1,140	684	--	--	--	--
9	--	--	--	--	--	1,540*	1,110	676	--	--	--	--
10	--	--	--	--	--	1,480	1,090	667	--	--	--	--
11	--	--	--	--	--	1,460	1,060	651	--	--	--	--
12	--	--	--	--	--	1,450	999	647	--	--	--	--
13	--	--	--	--	--	1,400	978	651	--	--	--	--
14	--	--	--	--	--	1,370	958	651	--	--	--	--
15	--	--	--	--	--	1,330	903	651	--	--	--	--
16	--	--	--	--	--	1,280	884	643	--	--	--	--
17	--	--	--	--	--	1,280	870	--	--	--	--	--
18	--	--	--	--	--	1,280	865	--	--	--	--	--
19	--	--	--	--	--	1,280	870*	--	--	--	--	--
20	--	--	--	--	--	1,270	865	--	--	--	--	--
21	--	--	--	--	--	1,220*	837	--	--	--	--	--
22	--	--	--	--	--	1,200	782	--	--	--	--	--
23	--	--	--	--	--	1,210	769	--	--	--	--	--
24	--	--	--	--	--	1,220	760	--	--	--	--	--
25	--	--	--	--	--	1,240	796	--	--	--	--	--
26	--	--	--	--	--	1,240	773	--	--	--	--	--
27	--	--	--	--	--	1,220	769	--	--	--	--	--
28	--	--	--	--	--	1,210	752	--	--	--	--	--
29	--	--	--	--	--	1,230	760	--	--	--	--	--
30	--	--	--	--	--	1,210	778	--	--	--	--	--
31	365*	--	--	--	--	--	778	--	--	--	--	--
MEAN	--	--	--	--	--	--	952	--	--	--	--	--
MAX.	--	--	--	--	--	--	1,230	--	--	--	--	--
MIN.	--	--	--	--	--	--	752	--	--	--	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

1,540 cfs on June 9

3,3201 cfs on June 1, 1960

MAXIMUM INSTANTANEOUS

1,550 cfs on June 9 at 3 p.m.

MINIMUM

643 cfs on August 16

342 cfs on April 19, 1960

MINIMUM INSTANTANEOUS

635 cfs on August 16 at midnight

NOTES

* - Discharge measurement.

Stage discharge relation is extrapolated above 3,090 cfs and below 628 cfs.

Accuracy of records: good.

This station was replaced on August 17, 1961, by Station No. 090605 located 0.4 mile upstream.

CLEARWATER

1.0 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090605

DRAINAGE AREA - 808 SQ. MI.

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	618	669	1,020	1,060E
2	--	--	--	--	--	--	--	--	607	695	998	1,060
3	--	--	--	--	--	--	--	--	775	704	1,010	1,060
4	--	--	--	--	--	--	--	--	821	704	1,190	1,060
5	--	--	--	--	--	--	--	--	825	711	1,270	1,050
6	--	--	--	--	--	--	--	--	825	715	1,300	1,050
7	--	--	--	--	--	--	--	--	825	715	1,310	1,040
8	--	--	--	--	--	--	--	--	812	715	1,310	1,040
9	--	--	--	--	--	--	--	--	804	739	1,300	1,030
10	--	--	--	--	--	--	--	--	796	779	1,260	1,030
11	--	--	--	--	--	--	--	--	767	804	1,250	1,020
12	--	--	--	--	--	--	--	--	759	812	1,250	1,010
13	--	--	--	--	--	--	--	--	727	817	1,250	1,000
14	--	--	--	--	--	--	--	--	696*	825	1,240	1,000
15	--	--	--	--	--	--	--	--	677	833	1,230	995
16	--	--	--	--	--	--	--	--	651	833	1,200	990
17	--	--	--	--	--	--	--	615*	651	833	1,170B	980
18	--	--	--	--	--	--	--	615	640	833	1,140	960
19	--	--	--	--	--	--	--	654	640	833	1,120	945
20	--	--	--	--	--	--	--	658	633	833	1,100	935
21	--	--	--	--	--	--	--	658	633	833	1,100	920
22	--	--	--	--	--	--	--	658	629	833	1,090	900
23	--	--	--	--	--	--	--	636	622	833	1,080E	890
24	--	--	--	--	--	--	--	622	622	833	1,070	880
25	--	--	--	--	--	--	--	622	622	846	1,070	865
26	--	--	--	--	--	--	--	622	622	893	1,070	845
27	--	--	--	--	--	--	--	625	633	976	1,070	835
28	--	--	--	--	--	--	--	625	651	1,020	1,070	820
29	--	--	--	--	--	--	--	625	658	1,020	1,070	805
30	--	--	--	--	--	--	--	625	658	1,020	1,060	785
31	--	--	--	--	--	--	--	625	--	1,020	--	775
MEAN	--	--	--	--	--	--	--	--	697	824	1,160E	956E
MAX.	--	--	--	--	--	--	--	--	825	1,020	1,310	1,060E
MIN.	--	--	--	--	--	--	--	--	607	669	998	775E

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

--

--

MAXIMUM

1,310 cfs on November 7 and 8

3,320I cfs on June 1, 1960

MAXIMUM INSTANTANEOUS

1,310 cfs on November 7 at midnight

MINIMUM

607 cfs on September 2

342 cfs on April 19, 1960

MINIMUM INSTANTANEOUS

596 cfs on September 2 at 1 p.m.

NOTES

* - Discharge measurement.

B - Ice effect from November 17.

E - Estimated from November 23.

Stage discharge relation is extrapolated above 3,100 cfs and below 518 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

This station replaces Station No. 090604.

CLEARWATER

1.0 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090605

DRAINAGE AREA - 808 SQ. MI.

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	760E	500E	397E	360	360	3,000E	1,190	784	666	654	784	580B
2	740	495	395	358*	370	2,150	1,140	779	719	654	821	570
3	730	490	393	357	380	2,750	1,100	800	715	654	825	560
4	715	485	392	356	395	2,600	1,080	792	704	654	821	545
5	700	480*	391*	355	420	2,500	1,040	775	680	622	784	540
6	695	477	390	353	480	2,450E	994	743*	658	633	821	530
7	680	470	388	352	780	2,350	984	727	658	618	788	525
8	670	465	387	351	980	2,290	998	700	647	583	784	515
9	660	462	385	350	1,080	2,240	1,110	692	651	604	747	505
10	655	460	385	350	1,150	2,140	1,170	684	643	600	747	500
11	645	455	384	349	1,220	2,110	1,160	662	654	586	727	500
12	635	450	383	348	1,310	2,010	1,140	631	643	580	688	495
13	620	445	381	348	1,420	1,980	1,160	625	647	586	699	495
14	615	443	380	347	1,550B	1,940	1,160	636	643	586	688	495
15	600	440	378	346	1,680	1,890	1,180	631	654	600	662	493
16	595	437	377	346	1,900	1,840	1,140	622	654	622	668	492
17	590	435	376	345	2,270	1,780	1,110*	618	658	643	673	490
18	585	430	375	344	2,600E	1,750	1,050	618	696	640	654	487
19	575	427	374	344	2,950	1,680	1,020	622	688	677	636	487
20	570	425	373	344	3,360	1,600	982I	618	731	700	636	486
21	565	423	372	344	3,500	1,580	940I	604	743	700	618	485
22	560	420	371	344	3,800	1,520*	885I	600	731	700	594	484
23	555	417	370	344	4,000	1,470	825I	597	743	700	611	480
24	550	415	370	344	4,200	1,470	820I	586	723	677	628	477
25	540	413	369	345	4,300	1,420	825	590	692	658	604	475
26	537	410	369	346	4,250	1,350	855	594	688	680	604	472
27	530	405	368	347	4,100	1,320	850	586	684	700	604	470
28	525	403	367	348	3,800	1,300	845	566	677	677	600	467
29	520	--	366	350	3,600	1,260	838	569	662	727	604	465
30	510	--	364E	352	3,350	1,210	830	600	658	775	597	460
31	505	--	360	--	3,200	--	845	586	--	784	--	460
MEAN	611E	446E	378E	349	2,220E	1,900E	1,010	653	680	654	691	500
MAX.	760E	500E	397E	360	4,300E	3,000E	1,190	800	743	784	825	580
MIN.	505E	403E	360	344	360	1,210	820I	566	643	580	594	460
M.F.C.	.724	.528	.448	.413	2.630	2.251	1.196	.774	.807	.775	.819	.592

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

843 cfs

843 cfs

MAXIMUM

4,300E cfs on May 25

4,300E cfs on May 25, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

344 cfs, April 18 to 24

342 cfs on April 19, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 14 and from December 1.

I - Interpolated.

E - Estimated to March 30 and from May 18 to June 6.

Stage discharge relation is extrapolated above 3,100 cfs and below 518 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

CLEARWATER

1.0 MI. FROM THE EASTMAIN RIVER

STATION NUMBER 090605

DRAINAGE AREA - 808 SQ. MI.

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	465	350	305	280	760	1,460I	1,190I	1,260	566	535	516	660
2	460	350	300	280	780	1,520I	1,180I	1,180	566*	535	509	658
3	460	345	300*	279	820	1,580I	1,170I	1,100	559	535	503	655
4	450	345	300	278	860	1,620	1,150*	1,050	532	535	503	653
5	445	342	300	278	860B	1,500*	1,150	1,010	532	535	503	650
6	440	340	300	279	880C	1,500I	1,180	967	532	535	516	650
7	435	340	298	279	960	1,500I	1,140	907	532	535	519	645
8	430	340	298	280	1,080	1,490I	1,140	885	532	535	529	640
9	425	338	298	280	1,150	1,490I	1,140	838	532	535	535	635
10	420	335	297	280	1,300	1,480I	1,130	812	532	535	535	630
11	415	334	296	280	1,600	1,470I	1,100	796	532*	535	535	625
12	415	330	295	280	1,850	1,460I	1,080	767	532	535	535	620
13	410	330	295	282	2,200	1,460I	1,050	751	535	535	535	615
14	405	330	295	285	2,400	1,450I	1,020	747	535	535	535	605
15	400	330	295	288	2,600	1,450I	972	739	509	535	535	600
16	395	328	293	290	2,700	1,440*	962	704	506	535	535	595
17	390	327	292	295	2,720	1,420I	962	704	506	535	535	590
18	390	325	291	298	2,750	1,400I	962	696	509	535	535	585
19	385	322	290	305	2,720	1,390I	959	662	516	535	535	580
20	380	320	290	310	2,700	1,380I	950	658	542	516	535	575
21	380	320	290	320	2,600	1,360I	946	658	545	503	535	570
22	375	318	290	340	2,500	1,340I	920	654	545	503	535B	565
23	370	315	289	370	2,350	1,320I	920	654	545	503	560	560
24	370	315	289	400	2,150	1,300I	929	633	549	503	590	555
25	365	310	288	430	1,950	1,290I	964*	619	549	503	640	550
26	365	310	288	460	1,750	1,280I	989	622	549	519	660	545
27	360	308	287*	480	1,600	1,260I	1,070	622	552	535	668	540
28	360	306	285	520	1,550	1,230I	1,160	615	552	535	670	535
29	360	--	284	600	1,500	1,210I	1,200	580*	539	535	665	530
30	355	--	282	700	1,450C	1,200I	1,270	573	535	535	660	525
31	355*	--	281	--	1,400	--	1,280	569	--	519	--	520
MEAN	401	329	293	344	1,760E	1,410	1,070	775	537	528	557	596
MAX.	465	350	305	700	2,750C	1,620	1,280	1,260	566	535	670	660
MIN.	355	306	281	278	760	1,200I	920	569	506	503	503	520
M.F.C.	.557	.456	.407	.478	2.442	1.956	1.489	1.077	.745	.733	.773	.827

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

720 cfs

781 cfs

MAXIMUM

2,750C cfs on May 18

4,300E cfs on May 25, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

278 cfs on April 4 and 5

278 cfs on April 4 and 5, 1963

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 5 and from November 22.

I - Interpolated.

C - By comparison with Giard and Gipouloux River, May 6 to 30.

Stage discharge relation is extrapolated above 3,100 cfs and below 518 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

GRANDE - RIVIERE

2.0 MI. DOWNSTREAM FROM THE ACHAZI RIVER

STATION NUMBER 092704

DRAINAGE AREA - 37200 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	85,100*	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
Accuracy of records: good.

GRANDE - RIVIERE

2.0 MI. DOWNSTREAM FROM THE ACHAZI RIVER

STATION NUMBER 092704

DRAINAGE AREA - 37200 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	108,000*	--	--	77,100	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	69,000*	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	165,000*	--	--	--	--	--	--
27	--	--	--	--	--	--	--	91,200	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
Accuracy of records: good.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 129 and 133 (Station No. 3DF-1).

GRANDE - RIVIERE

2.0 MI. DOWNSTREAM FROM THE ACHAZI RIVER

STATION NUMBER 092704

DRAINAGE AREA - 37200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	39,800E	27,400E	21,800*	17,900E	17,700E	140,000E	78,800C	69,500C	103,000C	81,500	91,100	66,000E
2	39,200	27,000	21,600E	17,800	18,700	138,000	78,300	70,000	102,000	82,000	91,900	65,500
3	38,700	26,800	21,400	17,700	20,000B	137,000	78,300	70,400	101,000	83,000	89,700	65,000
4	38,000	26,300	21,200	17,600	21,500	134,000	78,300	71,900	98,300	83,300	89,100	64,000
5	37,500	26,200	21,100	17,600	23,500	134,000	80,700	73,400	96,300	84,000	89,100	63,500
6	37,000	26,100	21,000	17,500	25,500	133,000E	81,700	73,900	94,300	85,600	89,000	62,500
7	36,700	26,000	20,800	17,400	28,000	132,000C	83,700	73,900	93,400	86,500	88,100	62,000
8	36,000	25,800	20,700	17,200	30,100	128,000	83,700	73,400	91,500	86,600*	87,600	60,500
9	35,800	25,500	20,600	17,100	35,000	128,000	83,700	73,400	90,500	88,400	87,200	59,500
10	35,300	25,300	20,400	17,000	40,100	127,000	83,700	71,900	88,600	91,800	86,500	58,500
11	34,900	25,100	20,200	17,000	48,000	126,000	83,200	72,400	87,600	96,400	86,000	58,000
12	34,400	25,000	20,000	16,900	55,000	125,000	82,700	72,900	86,600	93,400	83,900	57,000
13	34,000	24,800	19,900	16,800	61,000	124,000	82,200	73,900	85,600	102,000	82,000	56,000
14	33,500	24,600	19,800	16,700	69,000	118,000C	81,700	75,800	84,700	102,000	81,200	55,000
15	33,000	24,300	19,700	16,700	76,900	117,000*	81,200	77,800	83,800	101,000	80,300B	54,000
16	32,800	24,100	19,600	16,600	85,600	113,000C	80,700	79,800	82,200	101,000	79,800	53,000
17	32,400	24,000	19,500	16,600	94,300	112,000	80,300	83,700	82,200	101,000	79,800	52,000
18	32,000	23,800	19,400	16,500	107,000	109,000	79,800	87,100	82,200	101,000	78,500	50,500
19	31,600	23,600	19,200	16,500	119,000	107,000	79,300	89,600	80,700	101,000	77,800	49,500
20	31,000	23,400	19,000	16,500	128,000	103,000	78,800	94,300	80,300	101,000	76,300	48,000
21	30,800	23,200	18,900	16,400	138,000	98,300	77,800	97,300	79,800	101,000	75,400	47,000
22	30,400	23,100	18,800	16,300	149,000	95,400	77,800C	100,000C	79,300	101,000	74,400	46,000
23	30,000	23,000	18,700	16,200	154,000	93,400	77,300*	106,000*	79,300	101,000	72,900	44,500
24	29,900	22,800	18,500*	16,200	154,000	91,500	76,400C	108,000C	78,800	100,000	72,000	43,500
25	29,500	22,600	18,500	16,100	152,000	88,600	75,000	109,000	78,300C	98,100	71,000	42,500
26	29,000	22,500	18,400	16,100	149,000	86,600	73,900	109,000	78,800I	96,400	70,000	41,500
27	28,800	22,300	18,300	16,000	148,000	84,700	71,900	109,000	79,000I	96,200	69,000	40,500
28	28,400	22,100	18,200	16,100	147,000	82,700	71,000	109,000	79,300I	95,200	68,000	39,500
29	28,200	22,000	18,100	16,500	146,000	80,700	70,000	109,000	79,800I	94,000	67,500	39,000
30	28,000	--	18,000	17,000	145,000	79,800	69,500	108,000	80,000I	93,400	66,000	38,000
31	27,800*	--	18,000	--	143,000	--	69,000	106,000	--	92,100	--	37,000
MEAN	33,000E	24,400E	19,700E	16,800E	88,000E	112,000E	78,400E	87,100E	86,200E	94,500	80,000	52,200E
MAX.	39,800E	27,400E	21,800*	17,900E	154,000E	140,000E	83,700C	109,000C	103,000C	102,000	91,900	66,000E
MIN.	27,800*	22,000E	18,000E	16,000E	17,700E	79,800C	69,000C	69,500C	78,300C	81,500	66,000	37,000E
M.F.C.	.512	.378	.304	.260	1.364	1.739	1.215	1.349	1.336	1.464	1.240	.809

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

64,500 cfs

64,500 cfs

MAXIMUM

154,000E cfs on May 23 and 24

165,000 cfs on June 26, 1959

MAXIMUM INSTANTANEOUS

MINIMUM

16,000E cfs on April 27

16,000E cfs on April 27, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 3 and from November 15.

I - Interpolated.

C - By comparison with Kanaapscow River and Grande Rivière 5.1 miles downstream from the Sakami River, June 7 to 14, June 16 to July 22, July 24 to August 22 and August 24 to September 25.

E - Estimated to June 6 and from December 1.

Stage discharge relation is extrapolated above 170,000 cfs and below 14,300 cfs.

Accuracy of records: poor.

Four discharge measurements were made from 1958 to 1959.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3DF-1).

GRANDE - RIVIERE

2.0 MI. DOWNSTREAM FROM THE ACHAZI RIVER

STATION NUMBER 092704

DRAINAGE AREA - 37200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	36,800E	25,000E	19,200E	17,100E	26,000E	83,700E	73,600E	45,700I	39,000	51,400	59,000	52,500E
2	36,300	24,900	19,100	17,000	28,000B	82,500	73,900E	44,800I	38,700	54,700	58,500	52,300
3	36,000	24,800	19,000	17,000	30,300	81,700E	76,000	44,000I	38,900	56,900	58,000	52,000
4	35,400	24,600	18,900	17,000	33,000	80,600	75,600	43,800I	39,200	59,600	59,500	51,500
5	35,000	24,300	18,800	17,000	35,800	79,600	75,400	42,800I	39,400	62,300	61,000	51,000
6	34,500	24,000	18,800	16,900	38,200	77,800	75,400	42,500I	40,200	63,000	61,000B	50,000
7	34,100	23,900	18,700	16,900	42,000	76,300	75,300	42,000	39,300	64,300	61,000	49,500
8	33,700	23,800	18,600	16,900	44,400	75,300	74,800	41,600E	39,000	63,700	60,800	48,500
9	33,300	23,400	18,500	16,900	49,000	73,700	73,400	40,800	39,000	63,100	60,400	48,000
10	32,800	23,100	18,400	17,000	52,000	71,900	72,200	39,800	38,400	63,000	60,000	47,500
11	32,300	23,000	18,200	17,000	55,000	70,000	70,600	39,000	37,900*	63,200	60,000	46,500
12	32,000	22,900	18,100	17,000	59,600	69,800	69,400	38,000	36,700	61,600	59,500	46,000
13	31,800	22,600	18,000	17,000	63,000	68,000	66,800	37,800	36,400	62,400	59,200	45,000
14	31,400	22,400	18,000	17,000	67,000	67,800	65,000	37,300	36,200	62,200	59,000	44,000
15	31,000	22,100	18,000	17,000	70,200	66,700	63,500	37,000	35,600	61,400	58,500	43,500
16	30,600	21,900	17,900	17,000	73,900	66,200	61,700	37,000	35,100	60,600	58,200	42,500
17	30,200	21,800	17,800	17,000	77,800	66,000E	60,300	37,200	35,300	60,400	58,000E	42,000
18	29,900	21,500	17,800	17,000	81,700	66,000*	60,100	37,500	35,000	60,300	57,500	40,500
19	29,800	21,200	17,600	17,100	85,100	66,200E	59,900	37,900	34,900	60,200	57,000	40,000
20	29,500	21,100	17,500	17,200	87,600	66,800	59,500	38,000	36,400	60,200	56,500	39,000
21	29,100	20,900	17,500	17,400	89,400	67,400	57,900	38,200E	39,400	60,200	56,000	38,500
22	28,800	20,800	17,400	17,700	89,600	67,800	56,400	39,000	41,200	60,000	55,700	37,500
23	28,600*	20,600	17,400	17,900	90,500	68,000	55,400	39,200	43,200	59,900	55,500	37,000
24	28,200	20,400	17,300	18,300	91,500	68,500	54,200	39,500	45,300	59,300	55,000	36,000
25	27,900	20,000	17,300	19,000	91,500	69,400	53,000	39,600	47,500	59,700	54,700	35,500
26	27,700	19,900	17,300	19,900	91,500	69,900	51,900	39,900	51,000	59,700	54,200	34,800
27	27,200	19,800	17,300*	21,000	91,500	70,000	50,900	40,000	51,600I	59,800	54,000	34,000
28	26,800	19,700*	17,300	22,100	90,000	70,400	49,400	39,900	51,400I	59,700	53,500	33,200
29	26,300	--	17,200	23,400	89,600	71,700	48,000	39,600	50,800I	59,100	53,200	32,500
30	26,000	--	17,200	25,000	87,600	72,300	47,000*	39,100	50,400I	58,900	53,000	31,500
31	25,800	--	17,100	--	85,600	--	46,000	39,000	--	58,600	--	31,000
MEAN	30,900E	22,300E	18,000E	18,100E	67,400E	71,700E	63,000	39,900E	40,700	60,300	57,600E	42,400E
MAX.	36,800E	25,000E	19,200E	25,000E	91,500E	83,700E	76,000	45,700I	51,600I	64,300	61,000	52,500E
MIN.	25,800E	19,700*	17,100E	16,900E	26,000E	66,000E	46,000	37,000E	34,900	51,400	53,000E	31,000E
M.F.C.	.694	.501	.403	.405	1.513	1.611	1.415	.896	.915	1.354	1.293	.951

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

44,500 cfs

54,500 cfs

MAXIMUM

91,500E cfs, May 24 to 27

165,000 cfs on June 26, 1959

MAXIMUM INSTANTANEOUS

MINIMUM

16,900E cfs, April 6 to 9

16,000E cfs on April 27, 1960

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 2 and from November 6.

I - Interpolated.

E - Estimated to June 1, June 3 to 17, June 19 to July 2, August 8 to 21, and from November 17.

Stage discharge relation is extrapolated above 170,000 cfs and below 14,300 cfs.

Accuracy of records: fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3DF-1).

GRANDE - RIVIERE

2.0 MI. DOWNSTREAM FROM THE ACHAZI RIVER

STATION NUMBER 092704

DRAINAGE AREA - 37200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	32,000E	21,300	17,600	14,300	14,400	122,000	78,600	52,500	47,300	72,900	65,300	44,800E
2	31,100	21,100	17,300	14,100	15,600	121,000	76,800	51,600	47,500	72,000	62,900	44,500
3	30,600	21,000	17,200	14,000	17,000	122,000	75,900	51,300	49,200	71,200	62,300	44,100
4	30,000	20,800	17,200	13,900*	19,300B	123,000	74,200	51,200	49,200	71,100	61,400	43,800
5	29,500	20,700	17,000	13,900	22,900	126,000	73,100	50,900	51,000	71,100	61,100	43,000
6	29,000	20,400	17,000	13,800	25,600	126,000	70,300	50,800	55,100	71,100	58,100	42,500
7	28,500	20,300	16,800	13,600	28,300	126,000	67,600	50,600	55,600	71,100	57,300	42,000
8	28,000	20,100	16,600	13,600	29,800	126,000	65,700	50,100	55,800	69,400	56,700	41,200
9	27,600	20,000	16,500	13,600	31,200	125,000	63,700	50,000	55,900	69,100	55,600	40,500
10	27,200	19,800	16,400	13,600	32,400	124,000	62,500	49,800	56,100	67,500	55,100	40,000
11	26,900	19,700	16,400	13,600	36,600	121,000	62,200	49,400	56,300	66,700	55,100	39,600
12	26,500	19,600	16,400	13,600	40,200	118,000	61,400	49,600*	56,400	65,900	55,100	38,900
13	26,100	19,500	16,400	13,600	46,000	115,000	61,200	48,900	56,600	65,200	54,300	38,000
14	25,800	19,300	16,300	13,400	52,500	113,000	61,500	48,000	56,600	64,300	52,100	37,100
15	25,200	19,200	16,100	13,300	57,700	111,000	61,400	47,800	56,700	63,300	51,200B	36,700
16	24,900	19,200	15,800	13,300	62,900	108,000	61,200	46,700	56,700	61,900	50,900E	36,000
17	24,400	19,000	15,600	13,200	69,400	106,000	61,000	46,100	56,900	61,400	50,000	35,000
18	24,000	19,000	15,500	13,300	76,900	103,000	60,700	46,300	57,300	61,900	49,900	34,200
19	24,000	18,800	15,400	13,300	88,800	101,000	60,200	46,400	59,900	63,600	49,600	33,500
20	23,800	18,700	15,200	13,300	101,000	99,000	59,400	46,600	63,400	64,400	48,500	33,000
21	23,400	18,600	15,100	13,300	112,000	97,200	59,000	46,700	65,900	66,100	48,200	32,100
22	23,100	18,500	15,000	13,200	119,000	95,000	58,100	46,800	67,200	66,900	48,000	31,500
23	22,900*	18,400	15,000	13,200	125,000	93,000	57,000	46,900	67,400	67,100	47,300	30,900
24	22,500	18,200	15,000	13,100	126,000	91,200	55,300	47,000	68,200	67,400	47,100	30,200
25	22,300	18,100*	15,000	13,100	126,000	88,900	55,100	47,200	70,300	67,600	46,800	29,500
26	22,200	18,200	14,800	13,200	126,000	85,900	54,800	47,300	72,700	67,600	46,500	29,000
27	22,100	18,200	14,600	13,200	127,000	84,000	54,700	47,400	73,000	67,600	46,200	28,400
28	22,000	17,900	14,600	13,200	126,000	82,700	54,200	47,500	73,200	67,600	46,000	27,500
29	21,800	--	14,600	13,300	126,000	81,300	53,900	47,600	73,000	67,000	45,800	27,000
30	21,500E	--	14,500	13,600	125,000	79,300	53,500	47,700	72,900	66,100	45,200	26,500
31	21,500	--	14,300	--	124,000	--	53,300	47,600	--	65,800	--	25,900
MEAN	25,500E	19,400	15,800	13,500	72,000	107,000	62,200	48,500	60,100	67,200	52,700E	35,700E
MAX.	32,000F	21,300	17,600	14,300	127,000	126,000	78,600	52,500	73,200	72,900	65,300	44,800F
MIN.	21,500E	17,900	14,300	13,100	14,400	79,300	53,300	46,100	47,300	61,400	45,200E	25,900E
M.F.C.	.526	.400	.327	.278	1.485	2.212	1.283	1.001	1.241	1.386	1.087	.737

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (3 Years)

MEAN	48,400 cfs	52,500 cfs
MAXIMUM	127,000 cfs on May 27	165,000 cfs on June 26, 1959
MAXIMUM INSTANTANEOUS	128,000 cfs on May 27 at 3 p.m.	
MINIMUM	13,100 cfs on April 24 and 25	13,100 cfs on April 24 and 25, 1962
MINIMUM INSTANTANEOUS		

NOTES

* - Discharge measurement.
 B - Ice effect to May 4 and from November 15.
 E - Estimated to January 30 and from November 16.
 Stage discharge relation is extrapolated above 170,000 cfs and below 14,300 cfs
 Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3DF-1).

GRANDE - RIVIERE

2.0 MI. DOWNSTREAM FROM THE ACHAZI RIVER .

STATION NUMBER 092704

DRAINAGE AREA - 37200 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	25,400E	15,000E	12,900E	13,500	46,800	133,000	78,600	71,900	48,000	45,500	47,200E	50,000B
2	24,900	14,800	12,900	13,900	46,500	134,000	75,600	71,900	47,500	45,100	47,400	50,600E
3	24,200	14,700	12,900	13,500	49,300	142,000	73,100	71,900	47,600	45,100	47,600	51,800
4	23,700	14,500	12,900	13,400	54,100	145,000	71,300	71,800	47,500	45,200	47,800	52,400
5	23,300	14,400	12,900	13,100	56,400	146,000	70,800	70,100	47,600	45,100	47,900	53,000
6	23,100	14,300	12,900	13,100	60,200	146,000	68,800	68,300	47,500	45,500	47,900	53,600
7	22,800	14,100	12,900	13,100	58,000	145,000	68,400	66,100	47,700	45,800	47,900	53,900
8	22,200	13,900	13,000	13,100	58,700	143,000	68,100	63,900	47,700	46,300	47,900	54,000
9	21,800	13,800	13,000	13,100	59,000	142,000	68,400	62,700	47,700	47,200	48,000	54,000
10	21,300	13,700	13,100	13,100	58,000	139,000	67,500	61,900	47,300	47,300	48,000	54,000
11	21,000	13,600	13,100	13,200	59,200	138,000	66,800	61,800	46,700	47,500	47,800	53,800
12	20,700	13,500	13,200	13,200	59,300	134,000	66,400	60,500	46,400	48,100	47,900	53,200
13	20,100	13,400	13,300	13,600	58,900	131,000	65,200	59,200	46,400	48,100	46,800	52,400
14	19,800	13,300	13,400	13,900	63,200	128,000	64,800	59,100	45,800	48,100	46,200	51,900
15	19,500	13,200	13,500	14,000	60,500	125,000	65,300	57,400	45,200	47,400	46,000B	50,200
16	19,200	13,100	13,800	14,100	61,100	122,000	66,400	56,400	44,800	47,500	46,000	49,900
17	18,800	13,100	14,000	14,900	62,900	119,000	65,500	55,500	44,400	46,900	45,800	48,000
18	18,500	13,100	14,000	15,700B	67,100	114,000	65,000	55,000	43,900	46,600	45,800	46,200
19	18,200	13,000	14,100	17,700	71,200	112,000	64,300*	55,000	43,200	46,600	45,800	44,400
20	17,900	13,000	14,200	19,100	76,800	109,000	65,600	55,000	43,200	46,600	45,800	43,600
21	17,600	12,900	14,300	20,600	82,700E	106,000	66,000	54,200	43,000*	46,600	45,800	42,000
22	17,300	12,900	14,400	22,200	88,600	103,000	66,800	54,100	42,900	46,600	45,900	41,600
23	16,900	12,900	14,400E	24,300	94,300	100,000	66,800	53,400	42,900	46,600	46,000	39,600
24	16,700	12,900	14,400*	26,600	99,600	97,400	66,800	52,900	43,600	46,600	46,000	38,500
25	16,600	12,800	14,400	29,000	111,000	94,600	65,600	52,400	44,100	46,600	46,200B	37,500
26	16,300	12,900*	14,100	31,400	120,000	91,500	64,700	51,500	43,700	46,600	46,400	37,000
27	16,000	12,900	13,900	34,000	128,000E	88,600	64,700	50,900	44,700	46,600	47,000	36,000
28	15,800	12,900	13,900	37,100	132,000	86,000	64,900	49,700	45,200	46,600	47,500	35,000
29	15,600	--	13,900	43,000	132,000	83,400	65,600	49,700	45,300	46,600	48,000	34,500
30	15,300*	--	13,900	46,800	132,000	81,200	67,700	49,000	45,200	46,500	49,000	34,000
31	15,200	--	13,700	--	132,000	--	69,600	48,300	--	45,800	--	33,400
MEAN	19,500E	13,500E	13,600E	19,900	78,700E	119,000	67,600	58,700	45,600	46,600	47,000E	46,100E
MAX.	25,400E	15,000E	14,400E	46,800	132,000	146,000	78,600	71,900	48,000	48,100	49,000E	54,000E
MIN.	15,200E	12,800E	12,900E	13,100	46,500	81,200	64,300*	48,300	42,900	45,100	45,800E	33,400E
M.F.C.	.405	.280	.282	.413	1.633	2.476	1.402	1.218	.945	.966	.974	.957

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (4 Years)

MEAN 48,200 cfs

MAXIMUM 146,000 cfs on June 5 and 6

MAXIMUM INSTANTANEOUS 147,000 cfs on June 6 at 3 p.m.

MINIMUM 12,800E cfs on February 25

MINIMUM INSTANTANEOUS

51,400 cfs

165,000 cfs on June 26, 1959

12,800E cfs on February 25, 1963

NOTES:

* - Discharge measurement.

B - Ice effect to April 18, November 15 to 25 and from December 1.

E - Estimated to March 23, May 21 to 27, and from November 1.

Stage discharge relation is extrapolated above 170,000 cfs and below 14,300 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3DF-1).

GRANDE - RIVIERE

5.0 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092702

DRAINAGE AREA - 28900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	66,300	50,100	79,700	--	--	--
2	--	--	--	--	--	--	65,300*	50,300	78,500	--	--	--
3	--	--	--	--	--	--	64,200	51,000	78,100	--	--	--
4	--	--	--	--	--	--	65,200	51,400	76,600	--	--	--
5	--	--	--	--	--	--	66,600	52,000	75,500	--	--	--
6	--	--	--	--	--	108,000	66,700	52,600	74,900	--	--	--
7	--	--	--	--	--	107,000	66,500	53,100	73,900	--	--	--
8	--	--	--	--	--	107,000*	66,900	52,900	72,900	--	--	--
9	--	--	--	--	--	106,000	66,600	52,600	71,500	--	--	--
10	--	--	--	--	--	105,000	65,700	53,200	69,700	--	--	--
11	--	--	--	--	--	102,000	64,900	54,000	68,800	--	--	--
12	--	--	--	--	--	100,000	64,500	55,000	68,500	--	--	--
13	--	--	--	--	--	98,100	63,900	55,700	67,600	--	--	--
14	--	--	--	--	--	96,100	63,200	56,900	66,800	--	--	--
15	--	--	--	--	--	94,200	62,300	59,100	66,200	--	--	--
16	--	--	--	--	--	92,000	60,700	60,700	66,300	--	--	--
17	--	--	--	--	--	89,400	60,700	62,700	65,800	--	--	--
18	--	--	--	--	--	87,200	59,400	65,200*	65,400	--	--	--
19	--	--	--	--	--	82,900*	58,600	67,500	65,200	--	--	--
20	--	--	--	--	--	80,900	58,900	70,000	64,300	--	--	--
21	--	--	--	--	--	80,500	56,500	73,500	64,300	--	--	--
22	--	--	--	--	--	78,300	56,000*	76,900	63,700	--	--	--
23	--	--	--	--	--	76,300*	55,400	79,000	62,800	--	--	--
24	--	--	--	--	--	74,700	54,400	81,100	62,400*	--	--	--
25	--	--	--	--	--	72,300	53,600	82,700	--	--	--	--
26	--	--	--	--	--	70,200	52,900	83,500	--	--	--	--
27	--	--	--	--	--	68,800*	52,300	82,800	--	--	--	--
28	--	--	--	--	--	67,600	51,500	83,800	--	--	--	--
29	--	--	--	--	--	67,000	50,800	83,300	--	--	--	--
30	--	--	--	--	--	66,400	50,400	87,400	--	--	--	--
31	--	--	--	--	--	--	50,100*	81,500	--	--	--	--
MEAN	--	--	--	--	--	--	60,000	65,000	--	--	--	--
MAX.	--	--	--	--	--	--	66,900	83,800	--	--	--	--
MIN.	--	--	--	--	--	--	50,100*	50,100	--	--	--	--

FOR THE YEAR 1960

MEAN --

MAXIMUM 108,000 cfs on June 6

MAXIMUM INSTANTANEOUS 109,000 cfs on June 6 at 11.40 a.m.

MINIMUM 50,100 cfs on July 31 and August 1

MINIMUM INSTANTANEOUS 50,000 cfs on August 1 at 3 p.m.

NOTES

* - Discharge measurement.
 Stage discharge relation is extrapolated above 107,000 cfs and below 34,200 cfs.
 Accuracy of records: good.

GRANDE - RIVIERE

5.0 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092702

DRAINAGE AREA - 28900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	54,300*	--	--	--	--	--
7	--	--	--	--	--	--	--	35,600*	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	30,100	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	56,800*	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	48,200*	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	34,200*	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	53,000*	42,000*	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

* - Discharge measurement.
 Stage discharge relation is extrapolated above 107,000 cfs and below 34,200 cfs.
 Accuracy of records: good.

GRANDE - RIVIERE

5.0 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092702

DRAINAGE AREA - 28900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	65,000I	45,900	38,200	56,400	--	--
2	--	--	--	--	--	--	64,000I	45,900	38,700	56,400	--	--
3	--	--	--	--	--	--	62,000I	45,700	39,600	56,400	--	--
4	--	--	--	--	--	--	60,000*	45,700	39,900	55,500	--	--
5	--	--	--	--	--	--	59,500	45,500	40,500	54,800	--	--
6	--	--	--	--	--	--	57,800	45,200	41,300	53,600	--	--
7	--	--	--	--	--	--	56,600	44,900	41,900	52,600	--	--
8	--	--	--	--	--	--	55,600	44,300	42,500	52,500	--	--
9	--	--	--	--	--	--	54,300	43,500	43,300	52,500	--	--
10	--	--	--	--	--	--	54,200	43,300	43,700	51,400	--	--
11	--	--	--	--	--	--	54,200	42,700	44,100	50,700	--	--
12	--	--	--	--	--	--	54,200	42,100	44,600	49,500	--	--
13	--	--	--	--	--	--	54,300	41,600	45,100*	48,800	--	--
14	--	--	--	--	--	--	54,900	40,700	45,100	48,400	--	--
15	--	--	--	--	--	--	55,000	40,100	45,100	48,000	--	--
16	--	--	--	--	--	--	54,600	39,700	45,500	47,800	--	--
17	--	--	--	--	--	--	54,200	39,400	46,600	49,000	--	--
18	--	--	--	--	--	--	53,200	39,300	48,200	51,400	--	--
19	--	--	--	--	--	--	52,000	39,200	49,400	51,100	--	--
20	--	--	--	--	--	84,000*	50,900	39,100	51,400	52,300	--	--
21	--	--	--	--	--	83,000I	50,300	38,900	52,400	52,500	--	--
22	--	--	--	--	--	80,000I	49,100	38,700	53,300	52,500	--	--
23	--	--	--	--	--	79,000I	48,400	38,500	54,700	52,900	--	--
24	--	--	--	--	--	78,000I	47,600	38,500	56,200	53,300	--	--
25	--	--	--	--	--	76,000I	47,300	38,400	56,300	53,300	--	--
26	--	--	--	--	--	74,000I	47,000	38,400	56,300	53,300	--	--
27	--	--	--	--	--	72,000I	46,800	38,200	56,500	53,000	--	--
28	--	--	--	--	--	70,000I	46,800	38,200	56,900	52,500	--	--
29	--	--	--	--	--	68,000I	46,800	37,800	56,500	--	--	--
30	--	--	--	--	--	66,000I	46,700	37,700	56,400	--	--	--
31	--	--	--	--	--	--	46,200	37,900	--	--	--	--
MEAN	--	--	--	--	--	--	53,200	41,100	47,700	--	--	--
MAX.	--	--	--	--	--	--	65,000I	45,900	56,900	--	--	--
MIN.	--	--	--	--	--	--	46,200	37,700	38,200	--	--	--

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

84,000 cfs on June 20

108,000 cfs on June 6, 1960

MAXIMUM INSTANTANEOUS

84,300 cfs on June 20 at 8.55 a.m.

109,000 cfs on June 6, 1960 at 11.40 a.m.

MINIMUM

37,700 cfs on August 30

30,100 cfs on September 15, 1961

MINIMUM INSTANTANEOUS

37,600 cfs on August 30 at 6 a.m.

NOTES

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 107,000 cfs and below 34,200 cfs

Accuracy of records: good.

GRANDE - RIVIERE

5.0 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092702

DRAINAGE AREA - 28900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	100,000	63,800	50,000	39,100	36,500	36,700	--
2	--	--	--	--	--	103,000	61,900	49,800	38,500	36,500	36,700	--
3	--	--	--	--	--	109,000	60,700	48,800	38,500	36,500	36,700	--
4	--	--	--	--	--	113,000	59,100	47,600	38,500	36,900	36,700	--
5	--	--	--	--	--	115,000	57,900	47,000	38,500	37,400	36,700	--
6	--	--	--	--	--	117,000	57,300	46,700	38,500	37,700	36,700	--
7	--	--	--	--	--	118,000	56,500	46,300	38,500	38,300	36,400	--
8	--	--	--	--	--	118,000	56,500	45,400	38,500	38,600	--	--
9	--	--	--	--	--	116,000	56,500	45,100	38,200	38,900	--	--
10	--	--	--	--	--	115,000	55,400	44,900	37,900	39,200	--	--
11	--	--	--	--	--	114,000	55,000	44,300	37,800	39,500	--	--
12	--	--	--	--	--	113,000	54,200	44,400	37,100	39,500	--	--
13	--	--	--	--	--	111,000*	53,400	44,500	36,500	39,500	--	--
14	--	--	--	--	--	109,000	53,300	44,700	36,100	39,500	--	--
15	--	--	--	--	--	106,000	53,300	44,700I	36,100	39,300	--	--
16	--	--	--	--	--	103,000	52,700	44,700I	36,100	38,400	--	--
17	--	--	--	--	--	100,000	52,600	44,700I	35,700	38,400	--	--
18	--	--	--	--	--	96,100	52,200	44,700	35,600	38,400	--	--
19	--	--	--	--	--	93,800	52,200	44,700	35,600	38,400	--	--
20	--	--	--	--	--	91,100	52,500	44,700	35,600	38,400	--	--
21	--	--	--	--	--	88,500	52,500	43,700	35,500	38,400	--	--
22	--	--	--	--	--	85,600	52,500I	43,300	36,000	38,400	--	--
23	--	--	--	--	--	83,500	52,500I	42,700	36,100	38,400	--	--
24	--	--	--	--	--	81,600	52,500	42,100	36,500	38,400	--	--
25	--	--	--	--	--	78,300	51,400	42,100	36,700	38,400	--	--
26	--	--	--	--	--	75,900	50,900	41,500	36,700	38,400	--	--
27	--	--	--	--	--	73,000	51,700	41,400	37,100	37,800	--	--
28	--	--	--	--	--	70,900*	51,100	40,900	37,200	37,800	--	--
29	--	--	--	--	--	68,000	51,500	40,200	37,200	37,800	--	--
30	--	--	--	--	--	65,800	51,000	39,600	36,800	37,300	--	--
31	--	--	--	--	--	--	50,200	39,100	--	36,800	--	--
MEAN	--	--	--	--	--	97,700	54,300	44,300	37,100	38,200	--	--
MAX.	--	--	--	--	--	118,000	63,800	50,000	39,100	39,500	--	--
MIN.	--	--	--	--	--	65,800	50,200	39,100	35,500	36,500	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

118,000 cfs on June 7 and 8

118,000 cfs on June 7 and 8, 1963

MAXIMUM INSTANTANEOUS

MINIMUM

35,500 cfs on September 21

30,100 cfs September 15, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 107,000 cfs and below 34,200 cfs.

Accuracy of records: good.

GRANDE - RIVIERE

5.9 MI. UPSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092703

DRAINAGE AREA - 14900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CURIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	34,400	27,300	51,800	38,600	38,500	31,000E
2	--	--	--	--	--	--	34,000	27,900	51,200	38,600	38,400	30,500
3	--	--	--	--	--	--	33,400	28,600	50,600	38,600	38,300	30,000
4	--	--	--	--	--	--	33,300	29,200	49,900	38,500	38,100	29,800
5	--	--	--	--	--	--	33,300	29,700	49,400	38,300	38,000	29,300
6	--	--	--	--	--	--	33,500*	30,100	48,600	38,500	38,300	29,000
7	--	--	--	--	--	--	33,600	30,600	47,900	39,400	38,400	28,400
8	--	--	--	--	--	--	33,000	30,800	47,000	41,400	38,500	28,000
9	--	--	--	--	--	49,400*	32,600	30,700	46,000	43,000	38,700	27,500
10	--	--	--	--	--	43,700	32,200	32,100	44,900	44,000	38,700B	27,000
11	--	--	--	--	--	48,100	31,700	33,300	44,200	44,200	38,600	26,500
12	--	--	--	--	--	47,700	31,000	35,100	43,700	44,200	37,500	26,000
13	--	--	--	--	--	47,200	30,800	36,500	43,300	43,900	37,000	25,300
14	--	--	--	--	--	46,300	30,700	37,800	42,600	43,400	36,000	24,900
15	--	--	--	--	--	45,500	30,300	39,300	41,900	43,000	35,900	24,300
16	--	--	--	--	--	44,700	29,500	40,700	41,800*	42,400	35,800	24,000
17	--	--	--	--	--	43,900	29,600	42,200	41,100	42,100	35,500	23,500
18	--	--	--	--	--	42,900	29,600	44,200	40,900	41,900	35,300	23,000
19	--	--	--	--	--	42,400	29,400	47,000*	40,800	41,900	35,200	22,800
20	--	--	--	--	--	41,500	29,300	49,900	40,400	42,100	34,900	22,300
21	--	--	--	--	--	40,800	29,000	52,100	39,800	42,100	34,600	22,000
22	--	--	--	--	--	40,100	28,700	53,500	39,300	42,100	34,200	21,600
23	--	--	--	--	--	39,300*	28,400	54,500	39,200	42,000	33,800	21,200
24	--	--	--	--	--	38,700	28,200	55,100	39,100	41,700	33,600E	20,800
25	--	--	--	--	--	37,700	27,900	55,300	39,000	41,400	33,200	20,400
26	--	--	--	--	--	36,900	27,500	55,500*	38,800	41,200	33,300	20,200
27	--	--	--	--	--	36,100	27,400	54,500	38,800	41,100	32,500	19,700
28	--	--	--	--	--	35,600	27,100*	54,500	38,700	40,600	32,100	19,400
29	--	--	--	--	--	35,400	27,100	54,100	38,600	39,300	31,700	19,100
30	--	--	--	--	--	34,800	27,100	54,000	38,600	39,200	31,200	19,000
31	--	--	--	--	--	--	27,100	53,100	--	38,700	--	19,000
MFAN	--	--	--	--	--	--	30,300	41,900	43,300	41,200	35,900E	24,400E
MAX.	--	--	--	--	--	--	34,400	55,500*	51,800	44,200	38,700	31,000E
MIN.	--	--	--	--	--	--	27,100*	27,300	38,600	38,300	31,200E	19,000E

FOR THE YEAR 1960

MEAN --

MAXIMUM 55,500 cfs on August 26

MAXIMUM INSTANTANEOUS 55,700 cfs on August 26 at 1.05 p.m.

MINIMUM 19,000E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.
 B - Ice effect from November 10.
 E - Estimated from November 24.
 Stage discharge relation is extrapolated above 64,500 cfs and below 7,280 cfs.
 Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

GRANDE - RIVIERE

5.9 MI. UPSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092703

DRAINAGE AREA - 14900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	18,600E	12,800E	9,300E	7,600E	8,400E	36,000E	29,800	20,500	17,500	24,500	23,200	22,500E
2	18,200	12,700	9,200	7,550	8,600	36,000E	29,700	20,500	17,400	24,500	23,000	22,400
3	18,000	12,500	9,100	7,550	8,800	35,600	29,600	20,200	17,400	24,900	22,900	22,200
4	17,900	12,300*	9,000	7,500	9,100	35,400	29,400	19,800*	17,400	25,500	22,900	22,000
5	17,500	12,200	8,900	7,500	9,300	35,200	29,500	18,800	16,900	26,400	23,000B	21,900
6	17,300	12,100	8,800	7,500	9,600	34,900	29,600	18,500	17,500	26,200	23,400	21,800
7	17,000	12,000	8,700	7,500	9,800	34,700	30,100	18,500	17,500	26,100	23,700	21,200
8	16,900	11,900	8,600	7,500	10,200	34,300	30,600	18,400	17,400	26,200	23,800	21,000
9	16,700	11,800	9,500	7,500	10,800	33,600	30,200	18,300	17,300	26,500	23,800	20,800
10	16,400	11,700	8,400	7,500	11,200	33,100	29,900	17,900	17,000	26,300	23,200	20,400
11	16,200	11,500	8,300	7,500	11,900	33,000	29,600	17,600	16,700	26,200	23,000	20,100
12	16,000	11,400	8,250	7,550	12,900	32,900*	29,300	17,300	15,900	26,100	22,700	20,000
13	15,800	11,300	8,200	7,550	13,800	32,000	29,000	17,000	15,800	26,000	22,600	20,000
14	15,600	11,100	8,100	7,600	14,800	31,900	28,500	16,900	15,500	26,000	22,900	19,900
15	13,400	11,000	8,000	7,600	15,200B	31,900	27,600	16,800	15,000	25,700	23,000	19,800
16	15,200	10,900	8,000	7,500	16,900	31,700	27,300	16,800	14,900	25,800	23,000	19,800
17	15,000	10,800	8,000	7,600	18,900	31,600	26,800	17,000	14,900	25,600	23,200	19,300
18	14,900	10,600	7,900	7,600	21,000	31,600	26,400	17,300	14,900	25,500	23,100E	19,000
19	14,800	10,500	7,900	7,600	23,000	31,000	26,200	17,800	15,200	25,300	23,000	18,800
20	14,600	10,400	7,800	7,600	25,000	30,300	26,000	18,400	17,000	25,500	23,000	18,500
21	14,500	10,300	7,800	7,700	28,000	30,900	25,700	18,900	19,000*	25,900	23,000	18,200
22	14,300	10,200	7,800	7,700	31,000	30,900	25,200*	19,300	19,700	26,000	23,000	18,100
23	14,100	10,000	7,700	7,800	35,000	30,700	24,600	19,800	20,700	26,100	23,000	18,000
24	13,900	9,800	7,700	7,800	37,000	30,900	24,200	20,100	21,200	26,100	23,000	17,800
25	13,800	9,700	7,700	7,800	38,000	30,900	23,800	20,100	21,900	26,100	23,000	17,600
26	13,700	9,600	7,700	7,900	38,000	30,900	23,400	20,000	22,200	25,900	22,900	17,300
27	13,500	9,500	7,700	8,000	38,000	30,800	23,000	19,500	22,900	25,800	22,900	17,100
28	13,300	9,400	7,700	8,200	38,000	30,700	22,600	19,900	24,100	25,200	22,800	16,900
29	13,200	--	7,600	8,200	38,000	30,400	22,000	18,400	24,200	24,400	22,700	16,600
30	13,000	--	7,600	8,400	37,000	29,900	21,400	17,800	24,200	23,500	22,600	16,200
31	12,900	--	7,600	--	37,000	--	20,800	17,300	--	23,200	--	16,000
MEAN	15,400E	11,100E	8,180E	7,680E	21,400E	32,500	26,800	18,500	18,300	25,600	23,000E	19,400E
MAX.	18,600F	12,800F	9,300E	8,400E	38,000E	36,000E	30,600	20,500	24,200	26,500	23,800	22,500E
MIN.	12,900F	9,400E	7,600E	7,500E	8,400E	29,900	20,800	16,800	14,900	23,200	22,600	16,000F
M.F.C.	.806	.581	.429	.403	1.125	1.704	1.409	.973	.961	1.343	1.210	1.018

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

19,000 cfs

19,000 cfs

MAXIMUM

38,000E cfs, May 25 to 29

55,500 cfs on August 26, 1960

MAXIMUM INSTANTANEOUS

55,700 cfs on August 26, 1960 at 1.05 p.m.

MINIMUM

7,500E cfs, April 4 to 11

7,500E cfs, April 4 to 11, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 15 and from November 5.

E - Estimated to June 2 and from November 18.

Stage discharge relation is extrapolated above 64,500 cfs and below 7,280 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

GRANDE - RIVIERE

5.9 MI. UPSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092703

DRAINAGE AREA - 14900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16,200E	10,800E	7,400E	7,200E	6,220E	41,700	36,300	23,300	19,400	34,500	26,400	18,300E
2	16,000	10,800	7,350	7,250	6,250	42,600	36,000	23,300	19,700	33,900	26,100	18,100
3	15,700	10,500	7,300	7,200	6,300	44,200	35,000	23,200	20,500	33,000	25,300	18,000
4	15,300	10,300*	7,250	7,200*	6,330	46,300	34,800	23,300	21,700	32,900	24,000	17,900
5	15,100	10,100	7,200*	7,200	6,400	48,100	34,300	23,300	22,500	32,900	23,600	17,800
6	15,000	10,000	7,100	7,100	6,600	48,600	33,400	23,000	22,700	32,900	23,400	17,500
7	14,800	9,900	7,100	7,050	6,900	49,400	32,400	22,800	22,700	32,900	23,400B	17,300
8	14,500	9,800	7,050	7,000	8,500	49,300	32,100	22,600	23,600	32,300	23,400	17,200
9	14,200	9,600	7,000	6,950	10,500	49,600	31,600	22,000	24,100	31,600	23,000	17,100
10	14,000	9,500	6,950	6,900	12,300B	49,400	31,700	21,600*	24,500	30,900	22,900	17,000
11	13,800	9,250	6,900	6,850	13,400	48,600	32,200	21,000	25,100	29,800	22,900	16,900
12	13,600	9,100	6,850	6,750	15,000	48,200	32,300	20,400	25,500	29,700	22,800	16,600
13	13,400	9,000	6,800	6,700	16,300	48,000	32,300	20,100	25,800	29,600	22,400	16,300
14	13,200	8,900	6,750	6,680	17,400	47,700	32,300	19,700	25,900	28,500	22,100	15,900
15	13,200	8,700	6,700	6,600	19,800E	47,000	32,200	19,200	26,000	28,000	21,800	15,400
16	13,100	8,600	6,650	6,580	21,700	45,800	31,700	19,000	27,000	27,600	21,200	15,200
17	13,000	8,550	6,600	6,570	23,900	45,100	31,400	18,800	28,700	26,600	21,000	14,900
18	13,000	8,350	6,600	6,400	28,300	44,900	30,600	18,700	29,400	26,600	20,500	14,600
19	12,900	8,100	6,600	6,380	34,500	44,700	29,800	18,600	30,300	26,600	20,500	14,300
20	12,800	8,000	6,600	6,330	38,700	43,800	29,100	18,900	31,600	26,700	20,300	14,100
21	12,700	7,950	6,600	6,300	41,400	43,400	28,700	19,200	32,400	27,700	20,100	13,900
22	12,500	7,900	6,550	6,250	42,800	43,500	28,100	19,600	33,300	28,800	20,000	13,800
23	12,300	7,800	6,550	6,220	43,400	42,800	27,700	19,200	34,100	29,600	19,800	13,700
24	12,100	7,750	6,600	6,200	43,300	42,100	27,400	19,400	34,700	29,600	19,600E	13,700
25	12,000	7,650	6,600	6,200	42,300	41,400	26,800	19,400	35,200	29,600	19,300	13,700
26	11,800	7,600	6,650	6,200	41,400	40,100	26,200	19,400	35,200	29,500	19,100	13,700
27	11,700	7,500	6,700	6,200	41,100	39,500	26,000	19,200	35,600	29,300	18,900	13,600
28	11,500	7,450	6,800	6,200	41,400	38,800	25,100	19,100	35,600	28,500	18,800	13,500
29	11,200	--	6,950	6,200	41,400	38,100	24,600	19,100	35,600	27,900	18,600	13,500
30	11,100	--	7,050	6,200	41,300	36,500	24,500	18,900	34,800	27,400	18,400	13,400
31	11,000	--	7,100	--	41,600	--	24,000	18,900	--	26,500	--	13,300
MEAN	13,300E	8,910E	6,870E	6,640E	24,700E	44,600	30,300	20,500	28,100	29,700	21,700E	15,500E
MAX.	16,200E	10,800E	7,400E	7,250E	43,400	49,600	36,300	23,300	35,600	34,500	26,400	18,300E
MIN.	11,000E	7,450E	6,550E	6,200E	6,220E	36,500	24,000	18,600	19,400	26,500	18,400E	13,300E
M.F.C.	.635	.425	.327	.316	1.180	2.129	1.447	.976	1.341	1.418	1.033	.739

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 21,000 cfs

MAXIMUM 49,600 cfs on June 9

MAXIMUM INSTANTANEOUS 49,900 cfs on June 9 at 3 p.m.

MINIMUM 6,200E cfs, April 24 to 30

MINIMUM INSTANTANEOUS

20,000 cfs

55,500 cfs on August 26, 1960

55,700 cfs on August 26, 1960 at 1.05 p.m.

6,200E cfs, April 24 to 30, 1962

NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 7.

E - Estimated to May 15 and from November 24.

Stage discharge relation is extrapolated above 64,500 cfs and below 7,280 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

GRANDE - RIVIERE

5.9 MI. UPSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092703

DRAINAGE AREA - 14900 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	13,000E	8,500*	6,900E	5,750E	12,500E	50,100	33,800	26,800	21,000	21,400	21,400	20,400B
2	12,900	8,450E	6,850	5,700	13,600	51,200	32,600	26,500	20,600	21,400	21,500	20,800E
3	12,800	8,400	6,800	5,700	14,700	52,900	31,600	25,900	20,600	21,400	21,400	21,000
4	12,700	8,250	6,800	5,600	16,500	54,100	31,400	25,400	20,600	21,400	21,200	21,200
5	12,400	8,100	6,750*	5,600	18,500	55,300	31,300	25,400	20,600	21,700	21,300	21,600
6	12,300	8,000	6,700	5,600	20,500	56,600	31,300	25,400	20,900	22,400	21,200	21,800
7	12,200	7,900	6,650	5,600	22,200	56,800	31,300	25,100	21,300	22,600	21,200	22,000
8	11,900	7,850	6,600	5,600	23,500	57,000	31,200	24,800	21,300	22,600	21,400	22,100
9	11,800	7,800	6,600	5,600	24,500	56,700	31,100	24,800	21,000	22,800	21,500	22,100
10	11,700	7,700	6,600	5,600	26,000	56,800	30,700	24,800	20,700	23,100	21,500	22,100
11	11,400	7,650	6,550	5,600	26,800	56,000	30,600	24,800	20,700	23,100	21,600	22,000
12	11,200	7,600	6,500	5,600	27,200	55,500	30,300	24,300	20,200	22,800	21,500	21,800
13	11,000	7,500	6,450	5,650	27,700	54,700	29,800	23,700	20,200	23,100	20,500	21,700
14	10,800	7,450	6,450	5,650	28,000	53,500	29,800	23,600	20,300	22,700	19,800B	21,600
15	10,700	7,400	6,400	5,690	28,500B	52,100	29,500	23,600	19,900	22,400	19,300	21,400
16	10,600	7,400	6,350	5,800	29,000	51,100	29,900	23,600	19,800	22,000	19,300	21,100
17	10,400	7,350	6,300	5,900	29,500	49,200	29,600	23,600	19,800	22,000	19,400	20,900
18	10,200	7,300	6,300	6,100	30,500	48,400	29,500	23,600	19,900	22,300	19,200	20,600
19	10,100	7,200	6,250	6,300	32,000	47,200	29,500	23,100	20,200	22,200	18,900	20,100
20	10,000	7,200	6,200	6,450	34,000	46,500	29,500	23,000	20,600	21,800	19,600	19,700
21	9,820	7,150	6,200	6,650	35,500	45,400	29,500	23,000	20,900	21,500	19,900	19,100
22	9,700	7,100	6,200	6,900	37,000	44,600	29,500	23,000	21,100	21,500	19,300B	18,800
23	9,560	7,050	6,150	7,200	38,000	43,100	29,600	23,000	21,200	21,500	19,000E	18,300
24	9,450	7,000	6,100	7,500	39,200	42,000	29,600	23,000	21,700	21,600	19,300	17,900
25	9,320	7,000	6,100	7,900	40,500	39,900	29,300	23,000*	21,700	22,000	19,400	17,500
26	9,200	7,000	6,050	8,300	42,000	38,900	28,400	23,000	21,400	22,000	19,700	17,000
27	9,100	6,950	6,000	8,800	43,000	37,400	28,400	22,600	21,200	21,800	19,900	16,600
28	9,000	6,950	5,950*	9,400	44,000	36,500	27,700	22,000	21,300	22,000	20,000	16,200
29	8,850	--	5,950	10,300	45,000	35,600	27,700	22,000	21,300	22,000	20,100	15,800
30	8,700	--	5,900	11,300	46,500	34,600	27,400	21,600	21,300	22,000	20,200	15,400
31	8,600	--	5,800	--	47,900E	--	27,100	21,100	--	21,800	--	15,000
MEAN	10,700E	7,540E	6,370E	6,640E	30,500E	48,700	30,000	23,800	20,800	22,100	20,300E	19,800E
MAX.	13,000E	8,500*	6,900E	11,300E	47,900E	57,000	33,800	26,800	21,700	23,100	21,600	22,100E
MIN.	8,600E	6,950E	5,800E	5,600E	12,500E	34,600	27,100	21,100	19,800	21,400	18,900	15,000E
M.F.C.	.517	.365	.308	.321	1.474	2.354	1.449	1.153	1.005	1.069	.983	.957

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

20,700 cfs

20,200 cfs

MAXIMUM

57,000 cfs on June 8

57,000 cfs on June 8, 1963

MAXIMUM INSTANTANEOUS

57,400 cfs on June 8 at 3 p.m.

57,400 cfs on June 8, 1963 at 3 p.m.

MINIMUM

5,600E cfs, April 4 to 12

5,600E cfs, April 4 to 12, 1963

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 15, November 14 to 22 and from December 1

E - Estimated to May 31 and from November 23.

Stage discharge relation is extrapolated above 64,500 cfs and below 7,280 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1950

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	72.84	74.53	76.83	76.22	75.17	74.16	74.60	74.79
2	--	--	--	--	72.84	74.68	76.83	76.17	75.12	74.21	74.65	74.78
3	--	--	--	--	72.89	74.83	76.83	76.17	75.07	74.31	74.65	74.77
4	--	--	--	--	72.89	74.88	76.83	76.12	75.02	74.31	74.65	74.76
5	--	--	--	--	72.89	74.94	76.83	76.12	74.97	74.31	74.65	74.75
6	--	--	--	--	72.99	75.08	76.78	76.07	74.92	74.31	74.65	74.73
7	--	--	--	--	72.99	75.18	76.73	76.02	74.87	74.36	74.65	74.70
8	--	--	--	--	72.99	75.23	76.78	75.97	74.87	74.36	74.65	74.69
9	--	--	--	--	72.99	75.33	76.73	75.92	74.82	74.36	74.70	74.69
10	--	--	--	--	72.99	75.43	76.73	75.97	74.77	74.36	74.70	74.68
11	--	--	--	--	72.99	75.48	76.68	75.82	74.72	74.36	74.70	74.68
12	--	--	--	--	72.99	75.60	76.63	75.77	74.69	74.36	74.70	74.67
13	--	--	--	--	73.04	75.73	75.58	75.77	74.67	74.41	74.70	74.67
14	--	--	--	--	73.04	75.83	76.58	75.72	74.62	74.41	74.70	74.66
15	--	--	--	--	73.04	75.93	76.58	75.72	74.57	74.46	74.70	74.65
16	--	--	--	--	73.09	76.08	76.58	75.67	74.57	74.46	74.75	74.64
17	--	--	--	72.69	73.09	76.13	76.58	75.67	74.52	74.46	74.75	74.63
18	--	--	--	72.69	73.14	76.23	76.58	75.67	74.47	74.46	74.75	74.62
19	--	--	--	72.69	73.19	76.33	76.53	75.57	74.42	74.51	74.75	74.61
20	--	--	--	72.74	73.24	76.48	76.53	75.62	74.42	74.51	74.80	74.59
21	--	--	--	72.79	73.29	76.53	76.53	75.67	74.42	74.51	74.80	74.57
22	--	--	--	72.79	73.34	76.58	76.48	75.47	74.37	74.56	74.80	74.54
23	--	--	--	72.79	73.44	76.63	76.48	75.42	74.37	74.56	74.80	74.53
24	--	--	--	72.79	73.54	76.68	76.43	75.37	74.37	74.56	74.80	74.52
25	--	--	--	72.79	73.69	76.73	76.43	75.32	74.32	74.61	74.80	74.51
26	--	--	--	72.79	73.84	76.78	76.43	75.32	74.32	74.61	74.80	74.50
27	--	--	--	72.79	73.99	76.78	76.38	75.27	74.27	74.61	74.80	74.49
28	--	--	--	72.79	74.14	76.78	76.38	75.27	74.27	74.61	74.80	74.48
29	--	--	--	72.84	74.24	76.83	76.28	75.27	74.22	74.61	74.80	74.45
30	--	--	--	72.84	74.34	76.83	76.28	75.22	74.22	74.61	74.80	74.43
31	--	--	--	--	74.44	--	76.23	75.22	--	74.61	--	74.40
MEAN	--	--	--	--	73.30	75.90	76.58	75.69	74.61	74.45	74.73	74.62
MAX.	--	--	--	--	74.44	76.83	76.83	76.22	75.17	74.61	74.80	74.79
MIN.	--	--	--	--	72.84	74.53	76.23	75.22	74.22	74.16	74.60	74.40

FOR THE YEAR 1950

FOR ALL THE YEARS RECORDED (... Years)

MEAN

--

--

MAXIMUM

76.83 feet, June 29 to July 5

76.83 feet, June 29 to July 5, 1950

MAXIMUM INSTANTANEOUS

MINIMUM

72.69 feet, April 17 to 19

72.69 feet, April 17 to 19, 1950

MINIMUM INSTANTANEOUS

NOTES:

I - Interpolated.

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.

Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1951

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.38	73.88	73.46	73.08	73.67	74.59	75.08	74.62	74.36	74.03	74.15	74.37
2	74.37	73.85	73.45	73.09	73.70	74.60	75.08	74.63	74.34	74.02	74.22	74.38
3	74.36	73.82	73.42	73.10	73.70	74.64	75.08	74.67	74.33	74.02	74.24	74.38
4	74.35	73.79	73.39	73.11	73.72	74.66	75.08	74.67	74.33	74.02	74.26	74.38
5	74.34	73.79	73.37	73.11	73.74	74.66	75.02	74.67	74.32	74.02	74.29	74.38
6	74.32	73.79	73.36	73.12	73.77	74.68	75.04I	74.66	74.31	74.02	74.32	74.39
7	74.30	73.79	73.35	73.14I	73.80	74.69	75.05	74.66	74.31	74.03	74.33	74.39
8	74.28	73.78	73.34	73.15I	73.84	74.70	75.02	74.66	74.24	74.03	74.34	74.40
9	74.26	73.78	73.34	73.17I	73.90	74.74	75.01	74.66	74.20	74.02	74.35	74.40
10	74.24	73.77	73.33	73.18I	73.92I	74.74	74.98	74.65	74.18	74.02I	74.36	74.40
11	74.23	73.75	73.32	73.19I	73.95	74.77	74.96	74.64	74.17	74.01	74.37	74.39
12	74.21	73.73	73.30	73.20I	73.97	74.82	74.94	74.65	74.17	74.00	74.37	74.39
13	74.19	73.71	73.28	73.21I	74.01	74.84	74.93	74.65	74.16	74.02	74.38	74.38
14	74.17	73.69	73.26	73.22	74.07	74.85	74.93	74.63	74.17	74.02	74.39	74.38
15	74.14	73.66	73.24	73.24	74.07	74.90	74.92	74.61	74.19	74.02	74.39	74.36
16	74.13	73.63	73.23	73.26	74.11	74.92	74.88	74.59	74.16	74.00	74.40	74.36
17	74.12	73.60	73.22	73.30	74.13	74.93	74.89	74.57	74.17	73.99	74.40	74.35
18	74.11	73.58	73.21	73.33I	74.15	75.01	74.83	74.59	74.18I	74.00	74.41	74.33
19	74.10	73.57	73.20	73.36	74.22I	75.03	74.82	74.56	74.16	74.00	74.41	74.31
20	74.09	73.56	73.19	73.36	74.29	75.04	74.81	74.58	74.14	74.00	74.42	74.29
21	74.07	73.55	73.18	73.38	74.34	75.04	74.80	74.53	74.14	74.01	74.42	74.27
22	74.05	73.54	73.17	73.40	74.37I	75.05	74.76	74.48	74.11	74.02	74.41	74.24
23	74.04	73.53	73.16	73.46	74.40	75.07	74.74	74.51	74.12	74.04	74.40	74.21
24	74.03	73.52	73.15	73.48	74.44	75.07	74.72	74.50	74.11	74.05	74.39	74.19
25	74.02	73.51	73.14	73.50	74.45	75.07	74.74	74.50	74.10	74.06	74.38	74.18
26	73.99	73.50	73.12	73.52	74.46	75.07	74.71	74.48	74.10	74.08	74.37	74.16
27	73.96	73.49	73.10	73.54	74.51	75.07	74.73	74.46	74.07	74.15	74.35	74.14
28	73.95	73.48	73.08	73.58	74.53I	75.08	74.71	74.44	74.07	74.15	74.34	74.12
29	73.94	--	73.06	73.64	74.55I	75.08	74.70	74.48	74.06	74.14	74.35	74.10
30	73.93	--	73.04	73.66	74.57I	75.08	74.72	74.46	74.06	74.13	74.37	74.09
31	73.92	--	73.07	--	74.59	--	74.67	74.50	--	74.13	--	74.08
MEAN	74.15	73.67	73.24	73.30	74.13	74.88	74.88	74.58	74.18	74.04	74.35	74.30
MAX.	74.38	73.88	73.46	73.66	74.59	75.08	75.08	74.67	74.36	74.15	74.42	74.40
MIN.	73.92	73.48	73.04	73.08	73.67	74.59	74.67	74.44	74.06	73.99	74.15	74.08

FOR THE YEAR 1951

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

74.14 feet

74.14 feet

MAXIMUM

75.08 feet, June 28 to July 4

76.83 feet, June 29 to July 5, 1950

MAXIMUM INSTANTANEOUS

MINIMUM

73.04 feet on March 30

72.69 feet, April 17 to 19, 1950

MINIMUM INSTANTANEOUS

NOTES:

I - Interpolated.

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.

Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1952

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.06	73.57	73.17	72.94	73.14	75.14	76.61	75.62I	75.18	75.20	75.22	74.58
2	74.05	73.56	73.16	72.93	73.15	75.25	76.60	75.57	75.20	75.19	75.29	74.58
3	74.04	73.54	73.15	72.92	73.15	75.36	76.60	75.50	75.23	75.21	75.17	74.54
4	74.04	73.54	73.15	72.92	73.16	75.42	76.61	75.45	75.23	75.22	75.12	74.54
5	74.02	73.52	73.15	72.93	73.17	75.49	76.60	75.42	75.24	75.29	75.11	74.53
6	74.01	73.51	73.14	72.93	73.18	75.57	76.58	75.41	75.22	75.30	75.07	74.47
7	74.01	73.50	73.14	72.94	73.19	75.67	76.56I	75.38	75.22	75.28	75.09	74.47
8	73.98	73.50	73.13	72.96	73.20	75.73	76.53	75.32	75.24	75.29	75.09	74.42
9	73.96	73.48	73.12	72.98	73.21	75.79	76.51	75.30	75.19	75.29	75.09	74.39
10	73.95	73.46	73.12	72.99	73.21	75.90	76.49	75.29	75.19	75.29	74.83	74.37
11	73.94	73.44	73.11	73.00	73.22	75.95	76.47	75.31	75.21	75.26	74.74	74.35
12	73.92	73.43	73.10	73.01	73.24	76.03	76.43	75.36	75.23	75.26	74.74	74.35
13	73.89	73.42	73.10	73.01	73.34	76.08	76.40	75.32	75.22	75.26	74.74	74.32
14	73.88	73.40	73.09	73.02	73.44	76.14	76.37	75.29	75.24	75.26	74.70	74.29
15	73.87	73.37	73.08	73.02	73.53	76.23	76.35	75.28	75.24	75.28	74.68	74.29
16	73.85	73.36	73.07	73.03	73.57	76.29	76.32	75.24	75.23	75.28	74.68	74.30
17	73.83	73.33	73.06	73.04	73.64	76.37	76.28	75.19	75.24	75.26	74.65	74.30
18	73.82	73.32	73.06	73.05	73.92	76.42	76.26	75.19	75.21	75.24	74.66	74.28
19	73.80	73.30	73.05	73.07	74.06	76.50	76.23	75.19	75.22	75.23	74.62	74.29
20	73.78	73.28	73.04	73.07	74.17	76.54	76.18	75.17	75.20	75.21	74.60	74.28
21	73.75	73.27	73.03	73.08	74.29	76.59	76.13	75.15	75.21	75.22	74.61	74.28
22	73.73	73.25	73.03	73.09	74.41	76.68	76.09	75.14	75.22	75.22	74.59	74.27
23	73.71	73.23	73.03	73.09	74.50	76.69	76.06	75.16	75.21	75.22	74.60	74.26
24	73.68	73.22	73.02	73.09	74.59	76.69	76.01	75.16	75.20	75.21	74.60	74.26
25	73.66	73.20	73.02	73.10	74.66	76.70	75.97	75.20	75.20	75.23	74.60	74.25
26	73.65	73.19	73.02	73.10	74.74	76.70	75.93	75.16	75.19	75.22	74.62	74.22
27	73.64	73.19	73.01	73.11	74.86	76.71	75.88	75.20	75.19	75.23	74.61	74.20
28	73.62	73.19	73.00	73.12	74.89	76.71	75.83	75.20	75.21	75.23	74.60	74.20
29	73.61	73.18	73.00	73.13	74.94	76.70	75.80	75.14	75.22	75.21	74.60	74.18
30	73.59	--	72.98	73.14	74.99	76.65	75.74I	75.14	75.20	75.20	74.60	74.17
31	73.58	--	72.96	--	75.06	--	75.67	75.16I	--	75.18	--	74.15
MEAN	73.84	73.37	73.07	73.03	73.87	76.16	76.26	75.28	75.21	75.24	74.80	74.33
MAX.	74.06	73.57	73.17	73.14	75.06	76.71	76.61	75.62I	75.24	75.30	75.29	74.58
MIN.	73.58	73.18	72.96	72.92	73.14	75.14	75.67	75.14	75.18	75.18	74.59	74.15

FOR THE YEAR 1952

MEAN 74.54 feet

MAXIMUM 76.71 feet on June 27 and 28

MAXIMUM INSTANTANEOUS

MINIMUM 72.92 feet on April 3 and 4

MINIMUM INSTANTANEOUS

FOR ALL THE YEARS RECORDED (2 Years)

74.34 feet

76.83 feet, June 29 to July 5, 1950

72.69 feet, April 17 to 19, 1950

NOTES:

I - Interpolated.

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.

Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1953

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.11	73.62	73.19	72.88	73.18	74.20	75.37	75.01	74.67	74.89	74.82	74.75
2	74.09	73.60	73.19	72.88	73.19	74.25	75.37	74.99	74.63	74.88	74.82	74.74
3	74.08	73.58	73.18	72.87	73.24	74.29	75.36	74.97	74.54	74.89	74.82	74.73
4	74.06	73.57	73.15	72.86	73.24	74.36	75.36	74.94	74.52	74.91	74.83	74.72
5	74.04	73.57	73.13	72.87	73.29	74.41	75.36	74.93	74.49	74.90	74.82	74.74
6	74.03	73.56	73.12	72.88	73.33	74.45	75.35	74.90	74.47	74.89	74.80	74.74
7	74.03	73.55	73.12	72.89	73.35	74.50	75.34	74.86	74.46	74.89	74.80	74.75
8	73.99	73.53	73.10	72.90	73.39	74.57	75.32	74.86	74.45	74.88	74.81	74.75
9	73.97	73.53	73.10	72.92	73.44	74.62	75.30	74.84	74.46	74.86	74.80	74.75
10	73.96	73.51	73.08	72.93	73.44	74.69	75.30	74.80	74.46	74.85	74.79	74.74
11	73.93	73.50	73.08	72.95	73.52	74.73	75.28	74.78	74.46	74.85	74.80	74.74
12	73.91	73.48	73.05	72.95	73.56	74.78	75.27	74.74	74.45	74.85	74.80	74.72
13	73.91	73.47	73.06	72.96	73.59	74.83	75.24	74.70	74.44	74.84	74.78	74.70
14	73.89	73.45	73.03	72.97	73.59	74.85	75.23	74.67	74.49	74.85	74.77	74.70
15	73.84	73.44	73.03	72.97	73.64	74.88	75.20	74.67	74.56	74.83	74.76	74.68
16	73.86	73.36	73.03	72.99	73.64	74.91	75.20	74.68	74.59	74.81	74.77	74.67
17	73.85	73.35	73.01	73.00	73.69	74.93	75.17	74.63	74.63	74.80	74.79	74.64
18	73.84	73.33	73.01	73.02	73.72	74.98	75.14	74.60	74.64	74.86	74.78	74.61
19	73.82	73.32	73.00	73.03	73.74	75.01	75.13	74.56	74.65	74.87	74.78	74.60
20	73.81	73.30	72.99	73.04	73.74	75.04	75.10	74.54	74.65	74.86	74.77	74.60
21	73.79	73.29	72.98	73.06	73.74	75.08	75.09	74.52	74.67	74.88	74.75	74.58
22	73.77	73.28	72.98	73.07	73.84	75.12	75.07	74.53	74.68	74.86	74.76	74.57
23	73.75	73.27	72.97	73.08	73.89	75.17	75.06	74.46	74.70	74.83	74.80	74.56
24	73.74	73.26	72.96	73.10	73.98	75.22	75.06	74.47	74.66	74.82	74.79	74.55
25	73.72	73.24	72.96	73.11	74.00	75.27	75.06	74.46	74.69	74.81	74.85	74.53
26	73.70	73.23	72.95	73.12	74.04	75.31	75.05	74.45	74.71	74.82	74.82	74.52
27	73.69	73.22	72.94	73.12	74.09	75.33	75.04	74.39	74.77	74.82	74.79	74.50
28	73.68	73.21	72.92	73.14	74.10	75.36	75.04	74.41	74.80	74.82	74.78	74.46
29	73.66	--	72.91	73.16	74.14	75.38	75.03	74.40	74.83	74.85	74.76	74.43
30	73.65	--	72.89	73.17	74.14	75.40	75.02	74.41	74.85	74.86	74.74	74.39
31	73.63	--	72.89	--	74.19	--	75.02	74.40	--	74.84	--	74.37
MEAN	73.86	73.42	73.03	73.00	73.67	74.86	75.19	74.66	74.60	74.85	74.79	74.63
MAX.	74.11	73.62	73.19	73.17	74.19	75.40	75.37	75.01	74.85	74.91	74.85	74.75
MIN.	73.63	73.21	72.89	72.86	73.18	74.20	75.02	74.39	74.44	74.80	74.74	74.37

FOR THE YEAR 1953

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

74.21 feet

74.30 feet

MAXIMUM

75.40 feet on June 30

76.83 feet, June 29 to July 5, 1950

MAXIMUM INSTANTANEOUS

MINIMUM

72.86 feet on April 4

72.69 feet, April 17 to 19, 1950

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1954

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.35	73.86	73.59	73.06	72.77	74.83	75.51	75.04	74.57	74.46	74.50	74.44
2	74.34	73.83	73.57	73.08	72.82	74.87	75.56	75.01	74.59	74.48	74.52	74.45
3	74.33	73.80	73.56	73.10	72.87	74.92	75.53	74.98	74.57	74.45	74.56	74.43
4	74.32	73.78	73.54	73.09	72.92	74.96	75.49	74.95	74.58	74.47	74.53	74.39
5	74.31	73.73	73.50	73.08	72.99	75.03	75.46	74.93	74.61	74.50	74.51	74.40
6	74.31	73.70	73.47	73.07	73.07	75.07	75.43	74.91	74.63	74.53	74.50	74.42
7	74.29	73.65	73.48	73.04	73.16	75.11	75.40	74.88	74.61	74.54	74.51	74.43
8	74.28	73.63	73.46	73.01	73.24	75.20	75.41	74.85	74.59	74.57	74.52	74.40
9	74.27	73.64	73.43	72.98	73.31	75.29	75.39	74.82	74.56	74.58	74.54	74.37
10	74.27	73.64	73.41	72.95	73.38	75.33	75.37	74.79	74.57	74.55	74.56	74.35
11	74.25	73.64	73.42	72.92	73.46	75.36	75.38	74.76	74.55	74.54	74.54	74.34
12	74.24	73.63	73.39	72.91	73.53	75.39	75.36	74.75	74.53	74.57	74.54	74.32
13	74.22	73.63	73.37	72.89	73.60	75.41	75.38	74.72	74.54	74.53	74.53	74.31
14	74.19	73.62	73.35	72.90	73.69	75.44	75.34	74.68	74.52	74.52	74.55	74.30
15	74.17	73.63	73.31	72.89	73.77	75.49	75.31	74.66	74.50	74.50	74.56	74.27
16	74.15	73.63	73.29	72.87	73.85	75.52	75.34	74.68	74.51	74.47	74.57	74.24
17	74.16	73.61	73.26	72.85	73.92	75.56	75.30	74.70	74.50	74.48	74.59	74.21
18	74.13	73.62	73.22	72.83	74.02	75.59	75.27	74.72	74.51	74.46	74.56	74.20
19	74.09	73.62	73.19	72.80	74.09	75.54	75.23	74.70	74.48	74.45	74.57	74.22
20	74.07	73.62	73.20	72.77	74.14	75.50	75.21	74.66	74.45	74.43	74.54	74.20
21	74.04	73.61	73.22	72.74	74.21	75.52	75.19	74.67	74.47	74.44	74.53	74.17
22	74.01	73.60	73.23	72.72	74.27	75.53	75.17	74.65	74.49	74.47	74.50	74.15
23	74.00	73.60	73.21	72.70	74.32	75.55	75.13	74.63	74.51	74.50	74.53	74.16
24	73.98	73.58	73.18	72.68	74.40	75.58	75.11	74.65	74.53	74.54	74.51	74.13
25	73.98	73.59	73.18	72.65	74.45	75.61	75.08	74.64	74.55	74.53	74.49	74.14
26	73.97	73.59	73.19	72.67	74.51	75.60	75.10	74.62	74.56	74.50	74.47	74.12
27	73.97	73.58	73.15	72.66	74.57	75.58	75.08	74.61	74.54	74.52	74.48	74.11
28	73.95	73.57	73.13	72.68	74.62	75.59	75.07	74.62	74.51	74.50	74.50	74.07
29	73.93	--	73.11	72.70	74.68	75.56	75.05	74.59	74.50	74.49	74.49	74.04
30	73.91	--	73.09	72.73	74.74	75.53	75.07	74.57	74.49	74.51	74.47	74.02
31	73.89	--	73.08	--	74.79	--	75.06	74.56	--	74.52	--	73.98
MEAN	74.14	73.65	73.32	72.87	73.81	75.37	75.28	74.74	74.54	74.50	74.53	74.25
MAX.	74.35	73.86	73.59	73.10	74.79	75.61	75.56	75.04	74.63	74.58	74.59	74.45
MIN.	73.89	73.57	73.08	72.65	72.77	74.83	75.05	74.56	74.45	74.43	74.47	73.98

FOR THE YEAR 1954

FOR ALL THE YEARS RECORDED (4 Years)

MEAN 74.25 feet

74.28 feet

MAXIMUM 75.61 feet on June 25

76.83 feet, June 29 to July 5, 1950

MAXIMUM INSTANTANEOUS

MINIMUM 72.65 feet on April 25

72.65 feet on April 25, 1954

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1955

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	73.99	73.66	73.19	72.62	72.71	74.45	75.49	74.78	74.10	73.92	74.31	74.59
2	73.98	73.67	73.18	72.61	72.75	74.50	75.51	74.72	74.09	73.94	74.34	74.59
3	73.97	73.65	73.16	72.64	72.80	74.57	75.47	74.65	74.07	73.97	74.35	74.58
4	73.98	73.63	73.18	72.65	72.84	74.64	75.45	74.61	74.03	73.96	74.35	74.59
5	73.97	73.61	73.16	72.62	72.88	74.73	75.43	74.56	74.05	73.96	74.37	74.57
6	73.97	73.59	73.17	72.60	72.92	74.78	75.40	74.49	74.07	73.99	74.37	74.57
7	73.95	73.60	73.14	72.57	72.98	74.82	75.38	74.47	74.05	73.98	74.40	74.56
8	73.96	73.58	73.17	72.60	73.02	74.87	75.34	74.45	74.03	74.01	74.42	74.56
9	73.96I	73.57	73.19	72.59	73.05	74.91	75.31	74.43	74.01	74.00	74.46	74.54
10	73.97	73.56	73.18	72.58	73.09	74.96	75.28	74.45	74.03	74.01	74.53	74.55
11	73.96	73.53	73.15	72.61	73.14	75.01	75.25	74.46	74.01	73.99	74.53	74.54
12	73.95	73.51	73.10	72.64	73.18	75.08	75.23	74.44	73.99	74.00	74.58	74.53
13	73.94	73.48	73.07	72.63	73.24	75.12	75.20	74.42	73.97	74.00	74.58	74.53
14	73.92	73.45	73.03	72.66	73.32	75.16	75.16	74.43	73.97	74.01	74.59	74.49
15	73.90	73.42	72.99	72.68	73.39	75.21	75.13	74.41	73.96	74.01	74.59	74.46
16	73.91	73.39	72.96	72.66	73.47	75.26	75.14	74.38	73.94	74.03	74.58	74.46
17	73.88	73.36	72.92	72.67	73.54	75.29	75.11	74.39	73.93	74.07	74.60	74.44
18	73.89	73.35	72.89	72.65	73.63	75.33	75.10	74.37	73.93	74.06	74.62	74.44
19	73.87	73.32	72.85	72.62	73.69	75.36	75.12	74.35	73.94	74.08	74.60	74.43
20	73.86	73.29	72.83	72.58	73.76	75.38	75.09	74.34	73.91	74.07	74.60	74.42
21	73.84	73.27	72.81	72.56	73.81	75.41	75.05	74.32	73.91	74.11	74.60	74.41
22	73.85	73.24	72.79	72.57	73.86	75.42	75.06	74.29	73.92	74.13	74.64	74.39
23	73.83	73.23	72.76	72.58	73.92	75.44	75.01	74.27	73.92	74.12	74.62	74.37
24	73.80	73.22	72.77	72.57	73.99	75.42	75.02	74.23	73.90	74.12	74.61	74.34
25	73.77	73.20	72.74	72.59	74.05	75.43	75.00	74.19	73.91	74.21	74.62	74.31
26	73.73	73.21	72.72	72.58	74.13	75.41	74.98	74.17	73.91	74.23	74.62	74.32
27	73.71	73.19	72.70	72.59	74.19	75.43	74.95	74.14	73.91	74.31	74.61	74.32
28	73.69	73.20	72.69	72.62	74.25	75.45	74.91	74.16	73.93	74.31	74.62	74.29
29	73.70	--	72.67	72.66	74.33	75.47	74.88	74.15	73.92	74.31	74.62	74.26
30	73.68	--	72.65	72.68	74.36	75.46	74.82	74.12	73.94	74.29	74.60	74.23
31	73.67	--	72.63	--	74.39	--	74.79	74.08	--	74.31	--	74.21
MEAN	73.87	73.43	72.95	72.62	73.51	75.13	75.16	74.38	73.98	74.08	74.53	74.45
MAX.	73.99	73.67	73.19	72.68	74.39	75.47	75.51	74.78	74.10	74.31	74.64	74.59
MIN.	73.67	73.19	72.63	72.56	72.71	74.45	74.79	74.08	73.90	73.92	74.31	74.21

FOR THE YEAR 1955

MEAN

74.01 feet

MAXIMUM

75.51 feet on July 2

MAXIMUM INSTANTANEOUS

MINIMUM

72.56 feet on April 21

MINIMUM INSTANTANEOUS

FOR ALL THE YEARS RECORDED (5 Years)

74.23 feet

76.83 feet, June 29 to July 5, 1950

72.56 feet on April 21, 1955

NOTES:

I - Interpolated.

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1956

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.19	73.77	73.33	72.87	72.77	73.01	75.44	75.81	75.19	75.37	75.57	75.02
2	74.19	73.74	73.31	72.88	72.77	73.10	75.52	75.79	75.17	75.38	75.53	74.98
3	74.17	73.75	73.31	72.88	72.77	73.20	75.57	75.76	75.17	75.39	75.50	74.96
4	74.14	73.72	73.30	72.88	72.76	73.29	75.62	75.75	75.15	75.38	75.50	74.94
5	74.14	73.70	73.29	72.87	72.76	73.36	75.67	75.75	75.16	75.41	75.50	74.93
6	74.13	73.69	73.28	72.87	72.73	73.50	75.72	75.75	75.15	75.39	75.47	74.92
7	74.14	73.67	73.27	72.87	72.74	73.59	75.77	75.65	75.13	75.44	75.45	74.88
8	74.14	73.66	73.25	72.82	72.74	73.66	75.82	75.55	75.13	75.46	75.45	74.86
9	74.11	73.66	73.25	72.77	72.72	73.78	75.85	75.53	75.12	75.50	75.43	74.82
10	74.08	73.66	73.22	72.76	72.72	73.81	75.86	75.52	75.11	75.57	75.41	74.80
11	74.07	73.63	73.22	72.73	72.72	73.95	75.87	75.52	75.10	75.57	75.38	74.77
12	74.05	73.58	73.21	72.73	72.70	74.06	75.88	75.48	75.11	75.53	75.40	74.76
13	74.05	73.55	73.21	72.72	72.71	74.15	75.91	75.47	75.10	75.52	75.37	74.74
14	74.03	73.53	73.21	72.70	72.69	74.23	75.93	75.45	75.10	75.57	75.35	74.72
15	74.03	73.53	73.18	72.68	72.72	74.34	76.01	75.41	75.13	75.55	75.33	74.69
16	74.02	73.52	73.15	72.69	72.72	74.37	76.02	75.40	75.13	75.51	75.32	74.66
17	73.99	73.51	73.14	72.68	72.71	74.41	76.02	75.38	75.14	75.56	75.31	74.63
18	73.98	73.48	73.14	72.65	72.73	74.49	76.01	75.35	75.16	75.58	75.28	74.60
19	73.95	73.47	73.13	72.62	72.73	74.53	76.00	75.34	75.17	75.55	75.26	74.57
20	73.95	73.46	73.10	72.58	72.72	74.62	75.97	75.30	75.19	75.54	75.25	74.54
21	73.93	73.45	73.06	72.57	72.72	74.67	75.97	75.22	75.23	75.55	75.24	74.53
22	73.92	73.45	73.02	72.63	72.72	74.72	75.96	75.22	75.27	75.54	75.23	74.50
23	73.89	73.42	72.97	72.67	72.72	74.79	75.98	75.21	75.28	75.55	75.23	74.46
24	73.88	73.40	72.96	72.72	72.72	74.84	75.98	75.23	75.34	75.55	75.21	74.44
25	73.86	73.38	72.93	72.77	72.72	74.88	75.96	75.27	75.35	75.55	75.19	74.42
26	73.84	73.36	72.91	72.77	72.70	75.00	75.93	75.26	75.32	75.54	75.17	74.40
27	73.84	73.36	72.91	72.77	72.73	75.11	75.94	75.24	75.31	75.55	75.15	74.38
28	73.81	73.34	72.90	72.76	72.73	75.22	75.92	75.20	75.34	75.53	75.12	74.36
29	73.79	73.33	72.90	72.77	72.76	75.31	75.89	75.20	75.35	75.53	75.10	74.36
30	73.79	--	72.89	72.77	72.83	75.40	75.85	75.21	75.37	75.55	75.06	74.32
31	73.77	--	72.87	--	72.91	--	75.83	75.20	--	75.55	--	74.28
MEAN	74.00	73.54	73.12	72.75	72.74	74.25	75.86	75.43	75.20	75.51	75.33	74.65
MAX.	74.19	73.77	73.33	72.88	72.91	75.40	76.02	75.81	75.37	75.58	75.57	75.02
MIN.	73.77	73.33	72.87	72.57	72.69	73.01	75.44	75.20	75.10	75.37	75.06	74.28

FOR THE YEAR 1956

FOR ALL THE YEARS RECORDED (6 Years)

MEAN

74.36 feet

74.25 feet

MAXIMUM

76.02 feet on July 16 and 17

76.83 feet, June 29 to July 5, 1950

MAXIMUM INSTANTANEOUS

MINIMUM

72.57 feet on April 21

72.56 feet on April 21, 1955

MINIMUM INSTANTANEOUS

NOTES:

I - Interpolated.

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.

Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1957

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.25	---	---	---	---	73.75	76.47	76.41	75.68	75.29	75.08	74.78
2	74.22	---	---	---	---	73.92	76.51	76.37	75.59	75.31	75.06	74.76
3	74.20	---	---	---	---	74.05	76.56	76.35	75.57	75.36	75.05	74.75
4	74.15	---	---	---	---	74.20	76.61	76.32	75.54	75.30	75.05	74.73
5	74.13	---	---	---	---	74.34	76.65	76.30	75.52	75.31	75.04	74.71
6	74.10	---	---	---	---	74.39	76.67	76.29	75.53	75.30	75.03	74.70
7	74.08	---	---	---	---	74.51	76.67	76.23	75.52	75.30	75.02	74.68
8	74.05	---	---	---	---	74.58	76.68	76.17	75.50	75.29	75.02	74.67
9	74.03	---	---	---	---	74.67	76.69	76.12	75.49	75.30	75.01	74.66
10	74.00	---	---	---	---	74.75	76.71	76.08	75.48	75.28	75.00	74.64
11	73.98	---	---	---	---	74.84	76.72	76.03	75.47	75.25	75.00	74.62
12	73.95	---	---	---	---	74.97	76.73	76.02	75.46	75.23	74.98	74.60
13	73.92	---	---	---	---	75.06	76.73	75.95	75.48	75.21	74.96	74.59
14	73.89	---	---	---	---	75.13	76.74	75.93	75.47	75.20	74.94	74.57
15	73.85	---	---	---	---	75.24	76.76	75.88	75.45	75.18	74.92	74.55
16	73.79	---	---	---	---	75.37	76.78	75.86	75.44	75.14	74.92	74.53
17	73.76	---	---	---	---	75.45	76.79	75.84	75.47	75.18	74.91	74.52
18	73.72	---	---	---	---	75.55	76.80	75.85	75.44	75.17	74.91	74.50
19	73.69	---	---	---	---	75.69	76.77	75.83	75.43	75.19	74.91	74.48
20	73.67	---	---	---	---	75.83	76.71	75.86	75.40	75.17	74.90	74.45
21	73.66	---	---	---	---	75.93	76.71	75.84	75.34	75.17	74.90	74.43
22	73.64	---	---	---	---	76.05	76.68	75.81	75.37	75.16	74.89	74.42
23	73.62	---	---	---	---	76.19	76.63	75.77	75.42	75.16	74.88	74.41
24	73.60	---	---	---	---	76.22	76.62	75.72	75.40	75.14	74.87	74.42
25	73.57	---	---	---	---	76.26	76.60	75.71	75.40	75.14	74.87	74.41
26	73.54	---	---	---	---	76.30	76.57	75.68	75.39	75.15	74.86	74.41
27	73.49	---	---	---	---	76.33	76.53	75.70	75.34	75.16	74.85	74.40
28	73.46	---	---	---	---	76.39	76.50	75.72	75.32	75.13	74.83	74.38
29	73.42	---	---	---	73.42	76.41	76.48	75.70	75.30	75.11	74.82	74.38
30	73.40	---	---	---	73.50	76.45	76.45	75.72	75.29	75.10	74.80	74.37
31	73.38	---	---	---	73.66	--	76.43	75.68	--	75.09	--	74.36
MEAN	73.81	--	--	--	--	75.29	76.64	75.96	75.45	75.21	74.94	74.54
MAX.	74.25	--	--	--	--	76.45	76.80	76.41	75.68	75.36	75.08	74.78
MIN.	73.38	--	--	--	--	73.75	76.43	75.68	75.29	75.09	74.80	74.36

FOR THE YEAR 1957

FOR ALL THE YEARS RECORDED (6 Years)

MEAN

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74.25 feet

MAXIMUM

76.80 feet on July 18

76.83 feet, June 29 to July 5, 1950

MAXIMUM INSTANTANEOUS

MINIMUM

73.38 feet on January 31

72.56 feet on April 21, 1955

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1958

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.34	73.87	73.42	73.20	73.17	75.07	76.97	75.75	75.13	75.18	75.23	74.80
2	74.32	73.84	73.39	73.19	73.18	75.17	76.97	75.73	75.13	75.18	75.21	74.78
3	74.31	73.81	73.36	73.18	73.19	75.25	76.98	75.67	75.13	75.19	75.21	74.74
4	74.29	73.78	73.33	73.17	73.19	75.37	76.97	75.63	75.12	75.19	75.17	74.72
5	74.26	73.75	73.35	73.15	73.20	75.45	76.93	75.59	75.12	75.19	75.17	74.70
6	74.25	73.72	73.34	73.14	73.20	75.53	76.91	75.53	75.12	75.19	75.15	74.70
7	74.23	73.69	73.35	73.11	73.21	75.61	76.87	75.49	75.12	75.19	75.15	74.66
8	74.21	73.66	73.36	73.11	73.22	75.73	76.94	75.48	75.11	75.19	75.13	74.64
9	74.19	73.64	73.36	73.09	73.23	75.81	76.83	75.47	75.11	75.19	75.11	74.63
10	74.17	73.62	73.36	73.07	73.24	75.85	76.79	75.41	75.11	75.20	75.11	74.62
11	74.15	73.60	73.35	73.05	73.26	75.97	76.78	75.39	75.11	75.20	75.09	74.60
12	74.14	73.60	73.38	73.04	73.29	76.05	76.75	75.37	75.11	75.21	75.07	74.56
13	74.12	73.59	73.39	73.04	73.32	76.11	76.69	75.37	75.12	75.23	75.07	74.52
14	74.10	73.58	73.40	73.03	73.34	76.21	76.65	75.35	75.13	75.23	75.05	74.50
15	74.08	73.58	73.38	73.04	73.44	76.25	76.61	75.33	75.17	75.25	75.03	74.46
16	74.06	73.57	73.37	73.03	73.54	76.35	76.55	75.33	75.17	75.27	75.00	74.42
17	74.05	73.57	73.37	73.01	73.64	76.47	76.51	75.31	75.17	75.29	74.98	74.40
18	74.04	73.56	73.35	73.02	73.70	76.53	76.45	75.31	75.17	75.31	74.96	74.38
19	74.02	73.55	73.36	73.02	73.77	76.63	76.44	75.30	75.19	75.31	74.97	74.36
20	74.02	73.54	73.34	73.01	73.87	76.67	76.36	75.30	75.19	75.31	74.96	74.36
21	74.01	73.53	73.32	73.00	73.96	76.71	76.31	75.29	75.18	75.29	74.96	74.34
22	74.00	73.52	73.30	73.02	74.02	76.73	76.25	75.25	75.17	75.29	74.94	74.33
23	73.99	73.51	73.28	73.05	74.09	76.81	76.21	75.23	75.17	75.27	74.92	74.30
24	73.98	73.51	73.27	73.09	74.22	76.85	76.11	75.21	75.18	75.27	74.90	74.28
25	73.96	73.50	73.29	73.10	74.32	76.87	76.05	75.20	75.19	75.25	74.90	74.26
26	73.95	73.49	73.27	73.11	74.42	76.89	76.01	75.19	75.19	75.25	74.88	74.26
27	73.94	73.46	73.26	73.12	74.48	76.92	75.95	75.17	75.19	75.23	74.86	74.24
28	73.92	73.44	73.25	73.13	74.63	76.92	75.91	75.17	75.19	75.23	74.85	74.22
29	73.91	--	73.24	73.14	74.72	76.94	75.85	75.15	75.19	75.23	74.84	74.20
30	73.90	--	73.22	73.15	74.84	76.97	75.79	75.13	75.18	75.23	74.82	74.18
31	73.90	--	73.21	--	74.97	--	75.75	75.13	--	75.23	--	74.14
MEAN	74.09	73.61	73.33	73.09	73.74	76.22	76.49	75.36	75.15	75.23	75.02	74.46
MAX.	74.34	73.87	73.42	73.20	74.97	76.97	76.98	75.75	75.19	75.31	75.23	74.80
MIN.	73.90	73.44	73.21	73.00	73.17	75.07	75.75	75.13	75.11	75.18	74.82	74.14

FOR THE YEAR 1958

MEAN

74.65 feet

MAXIMUM

76.98 feet on July 3

MAXIMUM INSTANTANEOUS

MINIMUM

73.00 feet on April 21

MINIMUM INSTANTANEOUS

FOR ALL THE YEARS RECORDED (7 Years)

74.31 feet

76.98 feet on July 3, 1958

72.56 feet on April 21, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1959

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.13	73.58	73.12	72.86	73.16	75.54	76.72	76.38	75.59	74.97	75.33	75.55
2	74.12	73.56	73.11	72.85	73.14	75.64	76.70	76.44	75.54	74.92	75.35	75.53
3	74.10	73.53	73.10	72.84	73.15	75.74	76.66	76.42	75.52	74.95	75.39	75.51
4	74.08	73.52	73.08	72.82	73.15	75.87	76.62	76.42	75.51	74.96	75.40	75.50
5	74.07	73.50	73.08	72.82	73.16	75.96	76.60	76.42	75.48	74.91	75.40	75.48
6	74.06	73.48	73.06	72.83	73.17	76.04	76.56	76.42	75.46	74.88	75.40	75.46
7	74.06	73.46	73.05	72.84	73.18	76.14	76.55	76.40	75.45	74.88	75.40	75.42
8	74.04	73.44	73.03	72.86	73.18	76.22	76.55	76.36	75.44	74.86	75.41	75.42
9	74.04	73.43	73.02	72.88	73.20	76.32	76.54	76.36	75.41	74.86	75.42	75.42
10	74.03	73.42	73.02	72.89	73.22	76.38	76.54	76.34	75.38	74.88	75.42	75.39
11	74.02	73.40	73.01	72.90	73.26	76.46	76.53	76.34	75.36	74.90	75.44	75.35
12	73.99	73.38	73.00	72.92	73.32	76.52	76.52	76.32	75.32	74.91	75.46	75.32
13	73.96	73.36	73.00	72.92	73.40	76.58	76.51	76.32	75.27	74.94	75.48	75.29
14	73.94	73.34	72.99	72.93	73.54	76.62	76.50	76.26	75.24	74.92	75.50	75.26
15	73.92	73.33	72.98	72.94	73.62	76.68	76.48	76.22	75.19	74.90	75.52	75.24
16	73.92	73.32	72.97	72.94	73.72	76.76	76.46	76.12	75.15	74.88	75.53	75.23
17	73.90	73.30	72.96	72.96	73.76	76.80	76.45	76.10	75.12	74.90	75.54	75.21
18	73.90	73.29	72.97	72.97	73.84	76.84	76.43	76.09	75.09	74.93	75.55	75.18
19	73.88	73.28	72.96	72.98	74.02	76.89	76.41	76.07	75.08	74.92	75.57	75.15
20	73.86	73.26	72.95	72.98	74.10	76.89	76.37	76.03	75.06	74.89	75.54	75.12
21	73.84	73.24	72.94	72.99	74.17	76.90	76.36	75.98	75.03	74.89	75.51	75.07
22	73.82	73.22	72.93	73.00	74.24	76.90	76.35	75.91	74.99	74.88	75.51	75.02
23	73.78	73.20	72.93	73.01	74.34	76.88	76.31	75.89	74.95	74.85	75.51	74.98
24	73.74	73.18	72.92	73.02	74.46	76.86	76.35	75.88	74.93	74.90	75.51	74.95
25	73.71	73.17	72.92	73.04	74.58	76.82	76.41	75.86	74.93	74.97	75.51	74.93
26	73.68	73.16	72.91	73.06	74.68	76.78	76.43	75.81	74.92	75.11	75.53	74.92
27	73.67	73.14	72.90	73.10	74.80	76.74	76.43	75.75	74.91	75.19	75.53	74.91
28	73.66	73.12	72.88	73.12	74.96	76.74	76.41	75.73	74.92	75.23	75.55	74.87
29	73.64	--	72.88	73.14	75.10	76.72	76.39	75.69	74.95	75.25	75.55	74.83
30	73.62	--	72.87	73.17	75.28	76.74	76.37	75.65	75.01	75.27	75.55	74.79
31	73.60	--	72.86	--	75.40	--	76.35	75.62	--	75.29	--	74.74
MEAN	73.90	73.34	72.98	72.95	73.88	76.50	76.48	76.12	75.21	74.97	75.48	75.19
MAX.	74.13	73.58	73.12	73.17	75.40	76.90	76.72	76.44	75.59	75.29	75.57	75.55
MIN.	73.60	73.12	72.86	72.82	73.14	75.54	76.31	75.62	74.91	74.85	75.33	74.74

FOR THE YEAR 1959

FOR ALL THE YEARS RECORDED (8 Years)

MEAN

74.75 feet

74.36 feet

MAXIMUM

76.90 feet on June 21 and 22

76.98 feet on July 3, 1958

MAXIMUM INSTANTANEOUS

MINIMUM

72.82 feet on April 4 and 5

72.56 feet on April 21, 1955

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.73	73.95	73.53	73.03	72.97	74.88	75.72	75.13	75.77	75.61	75.41	75.39
2	74.71	73.93	73.51	73.01	72.96	74.89	75.69	75.13	75.77	75.61	75.44	75.36
3	74.68	73.93	73.50	73.01	72.95	74.91	75.66	75.13	75.77	75.60	75.46	75.36
4	74.65	73.93	73.48	73.01	72.99	74.97	75.63	75.13	75.75	75.59	75.48	75.34
5	74.63	73.91	73.46	73.01	73.03	75.04	75.60	75.13	75.75	75.59	75.48	75.33
6	74.61	73.90	73.43	73.00	73.07	75.09	75.58	75.14	75.76	75.61	75.49	75.32
7	74.58	73.88	73.39	73.00	73.10	75.16	75.55	75.14	75.76	75.61	75.50	75.30
8	74.54	73.86	73.39	72.99	73.13	75.22	75.52	75.15	75.75	75.61	75.52	75.27
9	74.50	73.83	73.39	72.99	73.16	75.29	75.50	75.17	75.75	75.60	75.53	75.24
10	74.48	73.80	73.38	72.98	73.18	75.33	75.48	75.21	75.75	75.60	75.53	75.20
11	74.46	73.77	73.37	72.97	73.21	75.38	75.46	75.23	75.72	75.59	75.51	75.18
12	74.44	73.77	73.35	72.98	73.24	75.43	75.44	75.26	75.69	75.59	75.50	75.16
13	74.41	73.76	73.32	72.99	73.27	75.45	75.38	75.30	75.67	75.58	75.48	75.14
14	74.37	73.76	73.28	72.96	73.30	75.47	75.33	75.35	75.66	75.57	75.48	75.11
15	74.34	73.76	73.24	72.94	73.38	75.50	75.31	75.39	75.66	75.53	75.49	75.10
16	74.33	73.76	73.22	72.94	73.45	75.57	75.29	75.43	75.66	75.49	75.50	75.09
17	74.32	73.75	73.22	72.96	73.62	75.61	75.26	75.45	75.66	75.49	75.51	75.09
18	74.29	73.71	73.20	72.98	73.74	75.67	75.24	75.48	75.67	75.49	75.50	75.07
19	74.25	73.66	73.19	73.01	73.85	75.69	75.21	75.50	75.68	75.48	75.49	75.07
20	74.22	73.66	73.18	73.04	73.94	75.71	75.19	75.52	75.67	75.48	75.49	75.05
21	74.19	73.65	73.18	73.02	74.06	75.71	75.16	75.52	75.66	75.47	75.50	75.03
22	74.16	73.61	73.16	72.99	74.16	75.72	75.11	75.54	75.66	75.44	75.49	75.02
23	74.15	73.56	73.16	72.95	74.24	75.73	75.11	75.55	75.66	75.39	75.48	75.00
24	74.13	73.55	73.16	72.95	74.31	75.74	75.11	75.57	75.66	75.41	75.47	74.99
25	74.10	73.53	73.14	72.94	74.40	75.75	75.11	75.59	75.67	75.44	75.46	74.95
26	74.07	73.51	73.12	72.94	74.48	75.75	75.09	75.60	75.68	75.44	75.46	74.90
27	74.06	73.53	73.10	72.96	74.58	75.76	75.09	75.63	75.68	75.42	75.45	74.86
28	74.05	73.53	73.09	72.98	74.67	75.77	75.06	75.65	75.66	75.40	75.44	74.86
29	74.02	73.53	73.07	72.98	74.75	75.77	75.07	75.67	75.66	75.38	75.43	74.84
30	73.99	--	73.06	72.97	74.81	75.78	75.09	75.71	75.66	75.38	75.42	74.82
31	73.97	--	73.05	--	74.88	--	75.12	75.74	--	75.38	--	74.80
MEAN	74.34	73.73	73.27	72.98	73.71	75.46	75.33	75.39	75.70	75.51	75.48	75.10
MAX.	74.73	73.95	73.53	73.04	74.88	75.78	75.72	75.74	75.77	75.61	75.53	75.39
MIN.	73.97	73.51	73.05	72.94	72.95	74.88	75.06	75.13	75.66	75.38	75.41	74.80

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (9 Years)

MEAN

74.66 feet

74.40 feet

MAXIMUM

75.78 feet on June 30

76.98 feet on July 3, 1958

MAXIMUM INSTANTANEOUS

MINIMUM

72.94 feet on April 25 and 26

72.56 feet on April 21, 1955

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	74.78	74.10	73.54	73.13	73.03	74.34	75.06	74.82	74.42	74.29	74.33	74.34
2	74.76	74.08	73.52	73.11	73.07	74.37	75.04	74.78	74.41	74.30	74.33	74.34
3	74.74	74.06	73.50	73.11	73.10	74.43	75.02	74.80	74.40	74.30	74.32	74.32
4	74.72	74.04	73.49	73.11	73.13	74.43	75.02	74.78	74.39	74.30	74.32	74.30
5	74.70	74.02	73.47	73.11	73.16	74.49	75.02	74.77	74.38	74.30	74.31	74.29
6	74.68	73.99	73.45	73.10	73.20	74.51	75.01	74.76	74.36	74.30	74.30	74.28
7	74.65	73.96	73.44	73.09	73.23	74.57	75.00	74.75	74.35	74.30	74.30	74.27
8	74.61	73.94	73.42	73.08	73.27	74.61	75.02	74.73	74.34	74.30	74.30	74.27
9	74.60	73.92	73.40	73.07	73.30	74.65	75.06	74.69	74.32	74.30	74.29	74.25
10	74.58	73.90	73.38	73.07	73.33	74.68	75.06	74.66	74.32	74.33	74.29	74.23
11	74.56	73.89	73.37	73.06	73.33	74.71	75.06	74.62	74.32	74.34	74.28	74.23
12	74.54	73.86	73.36	73.04	73.36	74.72	75.05	74.57	74.31	74.35	74.28	74.22
13	74.51	73.84	73.36	73.03	73.39	74.73	75.05	74.57	74.30	74.36	74.27	74.22
14	74.49	73.83	73.34	73.01	73.43	74.73	75.05	74.56	74.29	74.36	74.27	74.20
15	74.47	73.82	73.34	73.00	73.54	74.75	75.06	74.54	74.29	74.36	74.27	74.18
16	74.46	73.80	73.32	73.00	73.67	74.81	75.06	74.53	74.28	74.36	74.27	74.15
17	74.44	73.78	73.32	73.00	73.72	74.84	75.05	74.53	74.27	74.37	74.27	74.13
18	74.43	73.75	73.30	73.00	73.78	74.87	75.03	74.53	74.26	74.37	74.27	74.11
19	74.40	73.72	73.30	73.00	73.82	74.89	75.01	74.51	74.26	74.37	74.28	74.11
20	74.36	73.70	73.28	73.00	73.88	74.91	75.01	74.50	74.25	74.36	74.27	74.10
21	74.34	73.69	73.26	72.99	73.90	74.95	75.01	74.48	74.25	74.36	74.26	74.10
22	74.31	73.68	73.24	72.98	73.94	74.95	75.00	74.48	74.25	74.36	74.24	74.08
23	74.29	73.66	73.23	73.00	74.02	74.99	74.99	74.47	74.24	74.36	74.24	74.08
24	74.26	73.63	73.23	73.02	74.06	75.01	74.94	74.46	74.25	74.36	74.25	74.07
25	74.25	73.60	73.22	73.02	74.10	75.03	74.90	74.46	74.26	74.36	74.26	74.05
26	74.23	73.57	73.20	73.02	74.15	75.03	74.89	74.44	74.27	74.36	74.28	74.05
27	74.22	73.55	73.19	73.02	74.18	75.04	74.87	74.44	74.29	74.36	74.31	74.04
28	74.20	73.55	73.18	73.02	74.21	75.06	74.86	74.44	74.29	74.35	74.31	74.03
29	74.18	--	73.17	73.02	74.24	75.07	74.84	74.43	74.29	74.35	74.33	74.02
30	74.16	--	73.16	73.02	74.28	75.08	74.83	74.43	74.28	74.34	74.34	74.00
31	74.13	--	73.15	--	74.31	--	74.82	74.43	--	74.33	--	73.98
MEAN	74.45	73.82	73.33	73.04	73.65	74.78	74.99	74.58	74.31	74.34	74.29	74.16
MAX.	74.78	74.10	73.54	73.13	74.31	75.08	75.06	74.82	74.42	74.37	74.34	74.34
MIN.	74.13	73.55	73.15	72.98	73.03	74.34	74.82	74.43	74.24	74.29	74.24	73.98

FOR THE YEAR 1961

MEAN

74.14 feet

MAXIMUM

75.08 feet on June 30

MAXIMUM INSTANTANEOUS

MINIMUM

72.98 feet on April 22

MINIMUM INSTANTANEOUS

FOR ALL THE YEARS RECORDED (10 Years)

74.37 feet

76.98 feet on July 3, 1958

72.56 feet on April 21, 1955

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	73.97	73.62	73.30	73.04	72.76	74.24	75.30	74.75	74.29	74.62	74.52	74.05
2	73.96	73.61	73.31	73.03	72.79	74.30	75.23	74.73	74.33	74.64	74.51	74.04
3	73.96	73.61	73.32	73.01	72.81	74.38	75.24	74.70	74.36	74.62	74.51	73.99
4	73.92	73.60	73.29	73.01	72.81	74.47	75.26	74.66	74.34	74.63	74.50	73.97
5	73.89	73.60	73.27	73.01	72.82	74.51	75.27	74.63	74.33	74.63	74.48	73.95
6	73.89	73.59	73.26	73.00	72.83	74.58	75.27	74.59	74.31	74.61	74.47	73.94
7	73.90	73.57	73.25	72.99	72.84	74.64	75.23	74.56	74.34	74.60	74.45	73.95
8	73.91	73.55	73.24	72.97	72.86	74.72	75.26	74.52	74.38	74.59	74.45	73.96
9	73.90	73.53	73.22	72.96	72.87	74.75	75.24	74.56	74.41	74.58	74.43	73.92
10	73.89	73.51	73.18	72.95	72.90	74.77	75.23	74.52	74.42	74.57	74.43	73.89
11	73.88	73.50	73.18	72.96	72.90	74.77	75.21	74.51	74.43	74.57	74.40	73.87
12	73.87	73.48	73.18	72.96	72.91	74.82	75.16	74.46	74.45	74.58	74.38	73.86
13	73.85	73.47	73.15	72.96	72.93	74.91	75.14	74.42	74.45	74.57	74.35	73.84
14	73.84	73.46	73.15	72.94	72.96	74.97	75.12	74.41	74.50	74.58	74.35	73.84
15	73.83	73.45	73.14	72.91	72.98	75.05	75.08	74.40	74.53	74.57	74.32	73.82
16	73.81	73.44	73.14	72.89	73.00	75.09	75.10	74.37	74.54	74.59	74.30	73.79
17	73.81	73.44	73.13	72.88	73.06	75.09	75.15	74.35	74.55	74.58	74.26	73.77
18	73.80	73.39	73.11	72.87	73.12	75.11	75.11	74.33	74.57	74.59	74.24	73.75
19	73.80	73.38	73.10	72.86	73.26	75.14	75.08	74.30	74.58	74.59	74.23	73.73
20	73.79	73.37	73.10	72.86	73.35	75.16	75.05	74.27	74.59	74.57	74.23	73.72
21	73.79	73.37	73.09	72.86	73.45	75.17	75.01	74.24	74.59	74.59	74.22	73.69
22	73.77	73.37	73.07	72.86	73.55	75.20	74.96	74.24	74.60	74.60	74.19	73.66
23	73.75	73.37	73.06	72.85	73.61	75.23	74.95	74.24	74.60	74.59	74.18	73.67
24	73.72	73.35	73.04	72.84	73.68	75.26	74.91	74.25	74.60	74.60	74.18	73.63
25	73.72	73.33	73.02	72.83	73.76	75.27	74.88	74.25	74.62	74.61	74.16	73.59
26	73.72	73.31	73.02	72.81	73.85	75.30	74.83	74.25	74.60	74.61	74.11	73.54
27	73.70	73.31	73.02	72.80	73.94	75.31	74.76	74.23	74.59	74.58	74.11	73.50
28	73.68	73.31	73.04	72.79	74.00	75.31	74.77	74.22	74.60	74.56	74.09	73.48
29	73.67	--	73.04	72.78	74.08	75.31	74.79	74.23	74.61	74.54	74.06	73.46
30	73.65	--	73.06	72.77	74.10	75.31	74.77	74.23	74.62	74.52	74.06	73.44
31	73.63	--	73.05	--	74.16	--	74.76	74.23	--	74.52	--	73.43
MEAN	73.82	73.46	73.15	72.91	73.26	74.94	75.07	74.41	74.49	74.59	74.31	73.77
MAX.	73.97	73.62	73.32	73.04	74.16	75.31	75.30	74.75	74.62	74.64	74.52	74.05
MIN.	73.63	73.31	73.02	72.77	72.76	74.24	74.76	74.22	74.29	74.52	74.06	73.43

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (11 Years)

MEAN

74.01 feet

74.34 feet

MAXIMUM

75.31 feet, June 27 to 30

76.98 feet on July 3, 1958

MAXIMUM INSTANTANEOUS

MINIMUM

72.76 feet on May 1

72.56 feet on April 21, 1955

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

NICHICUN LAKE

STATION NUMBER 092716

GAUGE - MANUAL

STATION IN OPERATION SINCE 1950

DAILY WATER ELEVATION IN FEET FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	73.40	73.10	72.88	72.23	71.97	74.16	75.44	75.21	74.48	74.07	73.96	74.05
2	73.38	73.10	72.85	72.22	71.96	74.21	75.47	75.21	74.46	74.05	73.99	74.06
3	73.36	73.09	72.83	72.21	71.97	74.33	75.51	75.20	74.46	74.04	74.02	74.04
4	73.36	73.07	72.83	72.21	71.99	74.39	75.44	75.17	74.46	74.04	73.97	74.02
5	73.32	73.06	72.80	72.19	72.03	74.45	75.42	75.15	74.45	74.01	73.95	74.02
6	73.31	73.06	72.75	72.17	72.06	74.50	75.48	75.13	74.42	74.04	73.87	74.04
7	73.29	73.05	72.73	72.16	72.16	74.56	75.45	75.12	74.39	74.04	73.86	74.04
8	73.28	73.06	72.67	72.16	72.21	74.63	75.45	75.08	74.36	74.03	73.85	74.03
9	73.26	73.04	72.65	72.12	72.25	74.67	75.41	75.05	74.35	74.03	73.88	74.02
10	73.23	73.04	72.62	72.12	72.28	74.74	75.39	75.02	74.33	74.02	73.89	74.04
11	73.24	73.02	72.58	72.11	72.30	74.80	75.39	75.02	74.32	73.98	73.92	74.03
12	73.21	73.03	72.55	72.09	72.35	74.85	75.41	74.97	74.33	73.98	73.96	74.05
13	73.22	73.02	72.49	72.07	72.41	74.93	75.38	74.92	74.30	73.97	73.98	74.03
14	73.23	73.01	72.46	72.05	72.45	74.98	75.37	74.91	74.28	73.96	73.96	74.04
15	73.23	73.01	72.46	72.03	72.58	75.02	75.25	74.91	74.29	74.00	73.96	74.05
16	73.24	73.00	72.42	72.01	72.71	75.07	75.25	74.91	74.26	73.98	73.95	74.05
17	73.25	72.99	72.39	72.00	72.78	75.12	75.28	74.90	74.23	73.94	73.94	74.07
18	73.23	72.98	72.37	71.98	72.88	75.16	75.27	74.88	74.22	73.94	73.96	74.05
19	73.23	72.97	72.34	71.94	72.97	75.21	75.21	74.86	74.21	73.92	73.94	74.03
20	73.21	72.98	72.32	71.92	72.96	75.22	75.17	74.83	74.20	73.90	73.92	74.03
21	73.21	72.96	72.30	71.91	73.18	75.30	75.17	74.81	74.18	73.89	73.93	74.02
22	73.18	72.95	72.29	71.89	73.16	75.32	75.14	74.78	74.17	73.91	73.94	74.01
23	73.17	72.96	72.27	71.89	73.33	75.34	75.12	74.76	74.15	73.87	74.00	73.99
24	73.18	72.93	72.26	71.90	73.43	75.37	75.11	74.71	74.14	73.87	74.01	73.97
25	73.14	72.93	72.25	71.92	73.42	75.39	75.13	74.68	74.12	73.86	74.02	73.95
26	73.15	72.92	72.24	71.94	73.62	75.41	75.14	74.64	74.12	73.85	74.03	73.94
27	73.15	72.92	72.23	71.96	73.74	75.43	75.15	74.63	74.10	73.87	74.02	73.93
28	73.12	72.91	72.24	71.95	73.88	75.42	75.18	74.62	74.08	73.88	74.02	73.89
29	73.12	--	72.23	71.94	73.91	75.43	75.19	74.61	74.07	73.90	74.04	73.87
30	73.11	--	72.23	71.96	73.97	75.45	75.20	74.56	74.08	73.92	74.06	73.87
31	73.13	--	72.23	--	74.00	--	75.21	74.50	--	73.95	--	73.88
MEAN	73.23	73.01	72.48	72.04	72.80	74.96	75.30	74.90	74.27	73.96	73.96	74.00
MAX.	73.40	73.10	72.88	72.23	74.00	75.45	75.51	75.21	74.48	74.07	74.06	74.07
MIN.	73.11	72.91	72.23	71.89	71.96	74.16	75.11	74.50	74.07	73.85	73.85	73.87

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (12 Years)

MEAN

73.74 feet

74.29 feet

MAXIMUM

75.51 feet on July 3

76.98 feet on July 3, 1958

MAXIMUM INSTANTANEOUS

MINIMUM

71.89 feet on April 22 and 23

71.89 feet on April 22 and 23, 1963

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. C-12, elevation 100.00 feet.
Gauge read once daily.

KANAAUPSCOW

0.8 MI. UPSTREAM FROM THE POUTRE CREEK

STATION NUMBER 092705

DRAINAGE AREA - 6680 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	20,500	10,600*	13,300	16,300*	15,300C	14,200	9,300E
2	--	--	--	--	--	19,600	10,700	13,600	15,700	15,100C	13,800	9,100
3	--	--	--	--	--	18,900	10,800	14,800	15,200	15,100	13,700	9,000
4	--	--	--	--	--	18,800	11,400	15,500	14,800	15,100	13,500	8,900
5	--	--	--	--	--	19,600	13,300	15,600	14,400	15,400	13,400	8,700
6	--	--	--	--	--	20,200	14,700	15,600	14,100	15,400	13,400	8,500
7	--	--	--	--	--	20,400	14,800	15,600	13,900C	15,400	13,400	8,400
8	--	--	--	--	--	20,100	14,600	15,400	13,600	15,600	13,400	8,200
9	--	--	--	--	--	19,600	14,400	15,000	13,400	16,100	12,800	8,100
10	--	--	--	--	--	19,000	14,000	14,700	13,000	16,700	12,100E	8,000
11	--	--	--	--	--	18,300*	13,900	14,600	12,600	17,300	12,000	7,800
12	--	--	--	--	--	17,800	14,600	14,400	12,400	17,500	12,000	7,700
13	--	--	--	--	--	17,100	15,000	14,400	12,100	17,800	11,900	7,600
14	--	--	--	--	--	16,300*	15,400	14,600	12,000	17,800	11,800	7,500
15	--	--	--	--	--	15,600*	15,700	15,000	11,800	17,600	11,800	7,400
16	--	--	--	--	--	15,200	16,000	15,400	11,700	17,600	11,700	7,200
17	--	--	--	--	--	14,800*	16,500	16,000	11,600	17,500	11,600	7,100
18	--	--	--	--	--	14,100	16,900	17,800	11,600	17,100	11,400	7,000
19	--	--	--	--	--	13,400	16,800	19,500	11,600	16,900	11,200	6,900
20	--	--	--	--	--	12,800	16,600	21,300	11,700	16,900	11,000E	6,800
21	--	--	--	--	--	12,300*	16,000	22,200	11,800	16,900	10,900	6,600
22	--	--	--	--	--	11,800	15,600	22,600	12,000	16,500	10,700	6,500
23	--	--	--	--	--	11,500	15,500	22,100	12,200	16,000	10,400	6,400
24	--	--	--	--	--	11,000*	15,300	21,600	12,500	16,000	10,200	6,400
25	--	--	--	--	--	10,600	14,900*	20,800*	12,800	15,500	10,100	6,300
26	--	--	--	--	--	10,200	14,600	20,000	13,200	14,800	10,000	6,200
27	--	--	--	--	--	10,000	14,400	19,000	13,800	14,600	9,800	6,000
28	--	--	--	--	--	10,100*	13,900	18,600	14,400	14,600	9,700	6,000
29	--	--	--	--	--	10,100	13,600	18,000	15,000	14,200	9,500	5,900
30	--	--	--	--	22,300*	10,200	13,400	17,300	15,400	13,800	9,400	5,800
31	--	--	--	--	21,500	--	13,400	17,000	--	13,800	--	5,700
MEAN	--	--	--	--	--	15,300	14,400	17,100	13,200E	16,000	11,700E	7,320E
MAX.	--	--	--	--	--	20,500	16,900	22,600	16,300*	17,800	14,200	9,300E
MIN.	--	--	--	--	--	10,000	10,600*	13,300	11,600C	13,800	9,400E	5,700E

FOR THE YEAR 1960

MEAN

--

MAXIMUM

22,600 cfs on August 22

MAXIMUM INSTANTANEOUS

22,700 cfs on August 22 at 3 p.m.

MINIMUM

5,700E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 10.

C - By comparison with Denys River, 16.7 miles from the Grande Rivière de la Baleine from September 7 to October 2.

E - Estimated from November 20.

Stage discharge relation is extrapolated above 22,600 cfs and below 10,200 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

KANAAUPSCOW

0.8 MI. UPSTREAM FROM THE POUTRE CREEK

STATION NUMBER 092705

DRAINAGE AREA - 6680 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,600E	3,570*	2,700E	2,380E	5,780C	12,300	14,400	--	--	--	--	--
2	5,500	3,530E	2,690	2,380	6,500	11,600	14,600	--	--	--	--	--
3	5,400	3,500	2,670	2,370	7,200B	11,400	14,800	--	--	--	--	--
4	5,300	3,450	2,650	2,350	7,800	11,100	14,800	--	--	--	--	--
5	5,200	3,400	2,630	2,350	8,600	10,700	14,700*	--	--	--	--	--
6	5,150	3,380	2,610	2,350	9,500	10,400	14,500	--	--	--	--	--
7	5,030	3,330	2,600	2,330	10,500	10,200	14,100	--	--	--	--	--
8	4,990	3,300	2,590	2,340	11,400	9,680	--	--	--	--	--	--
9	4,900	3,270	2,580	2,330	12,700	9,480	--	--	--	--	--	--
10	4,820	3,220	2,560	2,330	14,200	9,280	--	--	--	--	--	--
11	4,780	3,200	2,540	2,330	15,400	9,150	--	--	--	--	--	--
12	4,680	3,180	2,530	2,340	16,700	9,080	--	--	--	--	--	--
13	4,600	3,130	2,520	2,350	18,000	8,980	--	--	--	--	--	--
14	4,550	3,100	2,510	2,370E	19,000	8,850	--	--	--	--	--	--
15	4,480	3,070	2,500	2,390C	19,800	8,750	--	--	--	--	--	--
16	4,400	3,030	2,490	2,400	20,200	8,710	--	--	--	--	--	--
17	4,370	3,000	2,480	2,440	20,300	8,690*	--	--	--	--	--	--
18	4,280	2,980	2,470	2,480	20,200	8,570	--	--	--	--	--	--
19	4,230	2,960	2,460	2,500	20,000	8,460	--	--	--	--	--	--
20	4,190	2,920	2,450	2,570	19,700	8,750	--	--	--	--	--	--
21	4,100	2,900	2,440	2,690	19,200	9,500	--	--	--	--	--	--
22	4,030	2,890	2,430	2,800	18,500	10,000	--	--	--	--	--	--
23	4,000	2,850	2,420	2,990	18,100	10,200	--	--	--	--	--	--
24	3,940	2,830	2,410	3,150	17,400	10,200	--	--	--	--	--	--
25	3,900	2,800	2,410	3,400	16,600	10,400	--	--	--	--	--	--
26	3,840	2,790	2,400	3,680	16,100	11,400*	--	--	--	--	--	--
27	3,800	2,770	2,400	4,050	15,400	11,600	--	--	--	--	--	--
28	3,740	2,740	2,400	4,400	14,900	11,900*	--	--	--	--	--	--
29	3,700	--	2,400	4,800	14,100	12,400	--	--	--	--	--	--
30	3,660	--	2,400	5,400	13,400	13,700	--	--	--	--	--	--
31	3,620	--	2,400	--	12,800C	--	--	--	--	--	--	--
MEAN	4,480E	3,110E	2,510E	2,830E	14,800E	10,200	--	--	--	--	--	--
MAX.	5,600E	3,570*	2,700E	5,400C	20,300C	13,700	--	--	--	--	--	--
MIN.	3,620E	2,740E	2,400E	2,330E	5,780C	8,460	--	--	--	--	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 5.

C - By comparison with Denys April 15 to May 31.

E - Estimated to April 14.

Stage discharge relation is extrapolated above 15,000 cfs and below 8,400 cfs.

Accuracy of records: poor.

Commencing on July 8, discharges are published at Station No. 092706 which is located at 1.6 miles upstream.

20,300 cfs on May 17

22,600 cfs on August 22, 1960

22,700 cfs on August 22, 1960 at 3 p.m.

2,330E cfs, April 9 to 11

2,330E cfs, April 9 to 11, 1961

KANAAUPSCOW

2.4 MI. UPSTREAM FROM THE POUTRE CREEK

STATION NUMBER 092706

DRAINAGE AREA - 6680 SQ. MI.

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	6,140	5,070	10,700C	10,000C	10,600E
2	--	--	--	--	--	--	--	6,190*	5,310	11,000	10,000	10,400
3	--	--	--	--	--	--	--	5,920	5,800	11,400	10,000	10,200
4	--	--	--	--	--	--	--	5,640	6,620	11,800	10,000	10,100
5	--	--	--	--	--	--	--	5,580	6,710	12,100	10,100	9,990
6	--	--	--	--	--	--	--	5,400	6,690	12,500	10,400	9,750
7	--	--	--	--	--	--	--	5,310*	6,400	12,800	10,700	9,600
8	--	--	--	--	--	--	14,000*	5,250E	6,330	13,200	11,000	9,400
9	--	--	--	--	--	--	13,200I	5,150	6,180	13,500	11,200	9,350
10	--	--	--	--	--	--	12,400*	5,050	6,040	13,700	11,400	9,200
11	--	--	--	--	--	--	12,000I	5,000	5,790	13,800	11,600	9,050
12	--	--	--	--	--	--	11,600*	4,900	5,400*	13,900	11,700	8,990
13	--	--	--	--	--	--	10,900I	4,800	5,370	13,800	11,800	8,800
14	--	--	--	--	--	--	10,300	4,700	5,270	13,700	11,900	8,650
15	--	--	--	--	--	--	10,000	4,600	5,180	13,600	12,000B	8,550
16	--	--	--	--	--	--	9,680	4,600	5,100	13,400	12,000	8,350
17	--	--	--	--	--	--	9,810	4,600	5,000	13,000	12,000	8,250
18	--	--	--	--	--	--	9,660*	4,750	5,010	12,700	12,100	8,100
19	--	--	--	--	--	--	9,350I	4,850	5,120	12,500	12,000	7,950
20	--	--	--	--	--	--	9,050I	5,000	6,230	12,100	12,000C	7,800
21	--	--	--	--	--	--	8,840	5,150	6,980	11,900	11,900E	7,600
22	--	--	--	--	--	--	8,550	5,200	7,260	11,700	11,800	7,450
23	--	--	--	--	--	--	8,230	5,300	7,550	11,500	11,700	7,300
24	--	--	--	--	--	--	1,970	5,250E	8,030	11,300	11,600	7,200
25	--	--	--	--	--	--	1,810*	5,060	8,440	11,000	11,400	7,000
26	--	--	--	--	--	--	7,550	5,030	8,690	10,700	11,300	6,900
27	--	--	--	--	--	--	7,210	5,030	8,760	10,500	11,100	6,800
28	--	--	--	--	--	--	6,980*	5,090	9,130	10,400	10,900	6,650
29	--	--	--	--	--	--	6,720	5,040	9,910	10,200	10,800	6,550
30	--	--	--	--	--	--	6,600	5,060	10,300C	10,100	10,700	6,350
31	--	--	--	--	--	--	6,280	5,060	--	10,000	--	6,250
MEAN	--	--	--	--	--	--	--	5,150E	6,660	12,100E	11,200E	8,360E
MAX.	--	--	--	--	--	--	--	6,190*	10,300C	13,900C	12,100C	10,600E
MIN.	--	--	--	--	--	--	--	4,600E	5,000	10,000C	10,000C	6,250E

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

14,000 cfs on July 8

14,000 cfs on July 8, 1961

MAXIMUM INSTANTANEOUS

MINIMUM

4,600E cfs on August 15, 16 and 17

4,600E cfs on August 15, 16 and 17, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 15.

I - Interpolated.

C - By comparison with Denys River, 16.7 miles from the Grande Rivière de la Baleine, September 30 to November 20.

E - Estimated August 8 to 24 and from November 21.

Stage discharge relation is extrapolated above 31,000 cfs and below 5,300 cfs.

Accuracy of records: poor.

This station replaces Station No. 092705 located at 1.6 miles downstream.

KANAAUPSCOW

2.4 MI. UPSTREAM FROM THE POUTRE CREEK

STATION NUMBER 092706

DRAINAGE AREA - 6680 SQ. MI.

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	6,200E	3,360E	2,330E	2,080E	2,060E	32,500E	11,800	7,610	6,350	12,300	12,300	8,500E
2	6,100	3,280*	2,310	2,070*	2,100	31,000	11,800	7,440	7,280	11,700	12,000	8,400
3	6,000	3,210	2,300	2,070	2,170	29,500	11,700	7,380	7,590	11,700	11,500	8,400
4	5,850	3,180	2,290	2,060	2,200	28,100	11,400	7,340	7,670	11,300	11,400	8,400
5	5,750	3,100	2,280	2,060	2,300	27,000	11,000	7,280*	8,190	11,200	11,100	8,300
6	5,600	3,050	2,260	2,050	2,400	26,000	10,500	7,280	8,780	10,900	11,100	8,200
7	5,500	3,000	2,240*	2,050	2,580	24,800	10,400	7,260	8,820	10,700	10,800	8,200
8	5,400	2,970	2,230	2,040	2,750	23,800	10,300	7,020	8,780	10,400	10,600	8,100
9	5,250	2,930	2,220	2,030	2,970	22,500	10,200	6,760	8,710	10,200	10,600B	8,000
10	5,150	2,900	2,200	2,020	3,290	21,700	10,100	6,510	8,460	9,840	10,600	7,900
11	5,000	2,880	2,190	2,010	3,600B	20,400	9,620	6,350	8,500	9,750	10,400	7,700
12	4,920	2,800	2,180	2,010	4,000	19,700	9,390	6,250	8,420	9,480	10,100	7,600
13	4,800	2,780	2,170	2,010	4,500	18,800E	9,240*	6,180	8,460	9,300	10,000	7,500
14	4,750	2,750	2,160	2,010	5,200	18,000*	9,660	6,070	8,590	9,280	9,600	7,400
15	4,610	2,700	2,160	2,010	6,400	17,100	10,000	5,850	8,800	9,280	9,300	7,300
16	4,450	2,680	2,150	2,010	7,600	17,100	10,100	5,790	8,950	9,280	9,100	7,100
17	4,420	2,660	2,140	2,010	8,300	17,100	10,100	5,790	9,410	9,280	9,000	7,000
18	4,350	2,620	2,120	2,010	12,200	16,600	9,940	5,770	9,890	9,660	8,900	6,900
19	4,280	2,600	2,110	2,010	18,000	15,900	9,730	5,770	10,700	10,200	8,900E	6,800
20	4,200	2,570	2,110	2,010	26,000	15,600	9,390	5,800	11,300	11,300	8,800	6,700
21	4,110	2,550	2,110	2,010	30,100	15,000	9,320	5,820	11,800	12,400	8,800	6,600
22	4,000	2,500	2,110	2,000	35,000	14,400	9,320	5,890	12,200	13,100	8,800	6,500
23	3,950	2,490	2,110	2,000	37,900	14,200	9,280	5,900	12,400	13,500	8,800	6,400
24	3,900	2,480	2,110	2,000	39,100	14,100	9,060	5,940	12,700	13,800	8,800	6,400
25	3,800	2,450	2,110	2,000	39,300	13,800	8,840	5,920	12,800	13,700	8,700	6,200
26	3,760	2,410	2,100	2,000	39,100	13,600	8,710	5,800	12,900	13,700	8,600	6,200
27	3,680	2,400	2,100	2,000	38,400	13,300	8,570	6,010	12,900	14,000	8,600	6,100
28	3,600	2,390	2,090	2,000	37,500	12,800	8,250	6,250	12,800	14,300	8,600	6,000
29	3,550	--	2,090	2,010	36,000	12,000	8,170	6,180	12,700	14,000	8,600	5,900
30	3,480	--	2,080	2,020	34,500	11,800	7,870	6,210	12,300	13,700	8,500	5,800
31	3,400	--	2,080	--	33,500	--	7,710	6,110	--	13,100	--	5,800
MEAN	4,640E	2,770E	2,170E	2,020E	16,800E	19,300E	9,720	6,370	9,970	11,500	9,760E	7,170E
MAX.	6,200E	3,360E	2,330E	2,080E	39,300E	32,500E	11,800	7,610	12,900	14,300	12,300	8,500E
MIN.	3,400E	2,390E	2,080E	2,000E	2,060E	11,800	7,710	5,770	6,350	9,280	8,500E	5,800E
M.F.C.	.542	.324	.253	.236	1.967	2.255	1.138	.745	1.167	1.345	1.142	.839

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

8,540 cfs

8,540 cfs

MAXIMUM

39,300E cfs on May 25

39,300E cfs on May 25, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

2,000E cfs, April 22 to 28

2,000E cfs, April 22 to 28, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 11 and from November 9.

E - Estimated to June 13 and from November 19.

Stage discharge relation is extrapolated above 31,000 cfs and below 5,300 cfs.

Accuracy of records: fair.

KANAAUPSCOW

2.4 MI. UPSTREAM FROM THE POUTRE CREEK

STATION NUMBER 092706

DRAINAGE AREA - 6680 SQ. MI.

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,550E	3,550E	2,800E	2,400E	7,000E	34,000	9,410	13,800	8,400	7,910	7,830	8,250B
2	5,450	3,500	2,800	2,400	8,600	30,500	9,190	13,800	8,610	7,910	7,830	8,300E
3	5,400	3,470	2,800	2,400	9,400	30,400	9,130	13,800	8,630*	7,910	7,830	8,350
4	5,300	3,440*	2,780	2,390	11,500	29,500	9,260	13,800	8,710	7,910	7,630	8,380
5	5,200	3,400	2,750	2,390	13,500	28,500	9,530	13,700	8,710	7,910	7,440	8,400
6	5,150	3,380	2,720*	2,390	15,000	27,200	9,570	13,200	8,690	7,910	7,400	8,440
7	5,050	3,350	2,720	2,390	16,000	26,000	9,570	12,700	8,740	7,910	7,350B	8,500
8	5,000	3,300	2,710	2,390	16,800	24,800	9,590	12,100	8,710	7,890	7,400	8,550
9	4,900	3,280	2,700	2,390	17,500	23,300	9,620	11,700	8,710	7,890	7,450	8,590
10	4,850	3,260	2,670	2,390	18,300	21,800	9,620	11,500	8,520	7,890	7,560	8,560
11	4,750	3,210	2,650	2,390	19,000B	20,700	9,620	11,100	8,320	7,890	7,600	8,500
12	4,700	3,180	2,630	2,390	19,500	19,600	9,300	11,000	8,290	7,890	7,620	8,450
13	4,650	3,150	2,600	2,390	20,000	18,700	9,210*	10,800	8,290	7,890	7,630E	8,440
14	4,600	3,100	2,600	2,390	20,500	17,900	9,260	10,700	8,190	7,890	7,640	8,420
15	4,500	3,090	2,600	2,400	21,000	17,000	9,370	10,500	8,010	7,850	7,650	8,400
16	4,450	3,080	2,580	2,420	21,500	16,200	9,730	10,400	7,910	7,590	7,690	8,330
17	4,400	3,040	2,570	2,450	22,000	15,600	10,100	10,000	7,910	7,470	7,700	8,260
18	4,350	3,010	2,540	2,480	23,000	14,700*	10,900	9,870	7,910	7,470	7,720	8,200
19	4,250	3,000	2,510	2,520	24,000	14,000	11,800	9,640	7,910	7,470	7,750	8,050
20	4,200	3,000	2,500	2,590	25,800	13,600	12,100	9,570	7,710	7,470	7,800B	7,940
21	4,150	2,990	2,500	2,650	27,000	13,000	12,500	9,620	7,610	7,440	7,840	7,800
22	4,100	2,980	2,500	2,730	28,500	12,500	12,500	9,640	7,510	7,170	7,900	7,600
23	4,050	2,960	2,480	2,800	30,000	12,000	12,300	9,570	7,510	7,210	7,930	7,500
24	3,960	2,940	2,470	2,900	31,200	11,500	12,300*	9,410*	7,510	7,450	7,970	7,400
25	3,900	2,900	2,440	3,100	33,000	11,100	12,000	9,150	7,510	7,550	8,000	7,200
26	3,850	2,890	2,430	3,350	34,000	10,800	11,700	8,950	7,510	7,750	8,080	7,050
27	3,800	2,880	2,410	3,600	35,000	10,500	11,800	8,780	7,610	7,850	8,150	6,840
28	3,750	2,860	2,400	4,200	36,000	10,000	11,600	8,610	7,830	7,850	8,180	6,630
29	3,690	--	2,400	5,000	36,300	9,940	12,700	8,590	7,910	7,850	8,200	6,580
30	3,630	--	2,400*	5,800	35,900	9,680	13,800	8,380	7,900	7,850	8,230	6,400
31	3,600	--	2,400	--	35,000E	--	13,800	8,400	--	7,850	--	6,200
MFAN	4,490E	3,150E	2,580E	2,820E	23,000E	18,500	10,700	10,700	8,110	7,730	7,770E	7,890E
MAX.	5,550E	3,550E	2,800E	5,800E	36,300E	34,000	13,800	13,800	8,740	7,910	8,230E	8,590E
MIN.	3,600E	2,860E	2,400E	2,390E	7,000E	9,680	9,130	8,380	7,510	7,170	7,350	6,200E
M.F.C.	.498	.349	.286	.312	2.551	2.055	1.193	1.192	.901	.858	.863	.876

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

9,000 cfs

8,770 cfs

MAXIMUM

36,300E cfs on May 29

39,300E cfs on May 25, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

2,390E cfs, April 4 to 14

2,000E cfs, April 22 to 28, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 11, November 7 to 20 and from December 1.

E - Estimated to May 31 and from November 13.

Stage discharge relation is extrapolated above 31,000 cfs and below 5,200 cfs.

Accuracy of Records: fair.

POUTRE

1.3 MI. FROM THE KANAAUPSCOW RIVER

STATION NUMBER 092701

DRAINAGE AREA - 65 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	41.7	44.0*	57.8	16.8	--	--	--
2	--	--	--	--	--	37.9*	55.0	98.3	15.0	--	--	--
3	--	--	--	--	--	33.0	81.5	153 *	14.2	--	--	--
4	--	--	--	--	--	500 I	248 *	102 *	18.6	--	--	--
5	--	--	--	--	--	499	170 *	79.2	17.7	--	--	--
6	--	--	--	--	--	270	124	67.5	21.1	--	--	--
7	--	--	--	--	--	183	92.0*	55.9	23.8	--	--	--
8	--	--	--	--	--	127	90.8	48.1	20.1	--	--	--
9	--	--	--	--	--	94.5	93.3	42.4	17.7	--	--	--
10	--	--	--	--	--	77.0	81.5	39.4	15.0	--	--	--
11	--	--	--	--	--	67.5	99.5	36.5	79.2	--	--	--
12	--	--	--	--	--	58.7	111	32.4*	113 *	--	--	--
13	--	--	--	--	--	50.6	82.6	35.8	82.6	--	--	--
14	--	--	--	--	--	44.8	68.5	65.5	80.3	--	--	--
15	--	--	--	--	--	40.1*	95.7	54.1*	86.1	--	--	--
16	--	--	--	--	--	43.2	94.5	56.8	93.3	--	--	--
17	--	--	--	--	--	63.5	80.3	55.0	77.0	--	--	--
18	--	--	--	--	--	55.0*	67.5	53.2	92.0	--	--	--
19	--	--	--	--	--	47.2	55.0	48.1	87.3	--	--	--
20	--	--	--	--	--	41.7	46.4*	41.7	80.3	--	--	--
21	--	--	--	--	--	37.9	38.7*	35.1	67.5	--	--	--
22	--	--	--	--	--	34.4	70.6	27.3	58.7	--	--	--
23	--	--	--	--	--	28.5*	120 *	21.7	54.1	--	--	--
24	--	--	--	--	--	25.5*	70.6*	18.6*	44.8	--	--	--
25	--	--	--	--	--	21.7	55.0	15.9*	103	--	--	--
26	--	--	--	--	--	18.6	48.1*	15.9	111	--	--	--
27	--	--	--	--	66.5	52.4*	41.7	22.7	97.0	--	--	--
28	--	--	--	--	57.8	50.6	35.8	22.7	131	--	--	--
29	--	--	--	--	45.6	33.7*	34.4	20.1	190	--	--	--
30	--	--	--	--	58.7	42.4*	35.8	19.1	227	--	--	--
31	--	--	--	--	53.2	--	53.2	19.1	--	--	--	--
MEAN	--	--	--	--	--	90.7	80.2	47.1	71.2	--	--	--
MAX.	--	--	--	--	--	500 I	248 *	153 *	227	--	--	--
MIN.	--	--	--	--	--	18.6	34.4	15.9*	14.2	--	--	--

FOR THE YEAR 1960

MEAN

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MAXIMUM

500I cfs on June 4

MAXIMUM INSTANTANEOUS

MINIMUM

14.2 cfs on September 3

MINIMUM INSTANTANEOUS

12.6 cfs at 8 a.m. on September 3

NOTES:

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 731 cfs and below 11.9 cfs.

Accuracy of records: good.

POUTRE

1.3 MI. FROM THE KANAAUPSCOW RIVER

STATION NUMBER 092701

DRAINAGE AREA - 65 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	308 *	37.9	14.6	--	--	--
2	--	--	--	--	--	34.4	235	32.4	31.0	--	--	--
3	--	--	--	--	--	--	301 *	26.7	106 E	--	--	--
4	--	--	--	--	--	--	223	23.3	211 E	--	--	--
5	--	--	--	--	--	--	177 *	20.6	105	--	--	--
6	--	--	--	--	--	--	144	18.6	80.3	--	--	--
7	--	--	--	--	--	--	114 *	16.8	64.5	--	--	--
8	--	--	--	--	--	--	90.8	15.9	50.6	--	--	--
9	--	--	--	--	--	--	72.7	15.9	44.0	--	--	--
10	--	--	--	--	--	35.8	59.6	15.9	37.2	--	--	--
11	--	--	--	--	--	--	50.6	14.2	35.1	--	--	--
12	--	--	--	--	--	--	42.4*	13.0	31.7	--	--	--
13	--	--	--	--	--	30.4	37.2	12.6	27.9	--	--	--
14	--	--	--	--	--	30.4	31.7	11.8	25.0	--	--	--
15	--	--	--	--	--	27.9	28.5	11.5*	23.8	--	--	--
16	--	--	--	--	--	25.0	25.5	12.6	27.9	--	--	--
17	--	--	--	--	--	23.8	84.9	14.2	31.0	--	--	--
18	--	--	--	--	--	23.8	115 *	17.2	29.8	--	--	--
19	--	--	--	--	--	55.9	88.4	22.2	30.4	--	--	--
20	--	--	--	--	--	89.6*	67.5	21.7	470	--	--	--
21	--	--	--	--	--	94.5	52.4	20.1	246	--	--	--
22	--	--	--	--	--	110	41.7	17.7	211	--	--	--
23	--	--	--	--	--	114 *	33.0	15.9	266	--	--	--
24	--	--	--	--	--	82.6	27.3	13.0	207	--	--	--
25	--	--	--	--	--	107	25.5	11.8	167	--	--	--
26	--	--	--	--	--	137 *	22.7*	11.2	--	--	--	--
27	--	--	--	--	--	101	20.1	13.8	--	--	--	--
28	--	--	--	--	--	78.1*	16.3	12.6	--	--	--	--
29	--	--	--	--	--	556 *	25.5	12.6	--	--	--	--
30	--	--	--	--	--	476 *	55.9	15.0	--	--	--	--
31	--	--	--	--	--	--	40.9	15.9	--	--	--	--
MEAN	--	--	--	--	--	--	85.7	17.2	--	--	--	--
MAX.	--	--	--	--	--	--	308 *	37.9	--	--	--	--
MIN.	--	--	--	--	--	--	16.3	11.2	--	--	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

556 cfs on June 29

556 cfs on June 29, 1961

MAXIMUM INSTANTANEOUS

765 cfs at 4 p.m. on June 29

765 cfs at 4 p.m. on June 29, 1961

MINIMUM

11.2 cfs on August 26

11.2 cfs on August 26, 1961

MINIMUM INSTANTANEOUS

10.8 cfs at 3 p.m. on August 26

10.8 cfs at 3 p.m. on August 26, 1961

NOTES:

* - Discharge measurement.

E - Estimated on September 3 and 4.

Stage discharge relation is extrapolated above 731 cfs and below 11.9 cfs.

Accuracy of records: good.

POUTRE

1.3 MI. FROM THE KANAAUPSCOW RIVER

STATION NUMBER 092701

DRAINAGE AREA - 65 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	26.7	94.5	344	45.6	--	--
2	--	--	--	--	--	--	23.3	153	512	43.2	--	--
3	--	--	--	--	--	--	20.6	106	289	43.2	--	--
4	--	--	--	--	--	--	18.2	81.5	197	40.9	--	--
5	--	--	--	--	--	--	16.3	64.5	341	35.8	--	--
6	--	--	--	--	--	--	16.3	51.5	296	35.8	--	--
7	--	--	--	--	--	--	22.2	41.7	192	34.4	--	--
8	--	--	--	--	--	--	33.7	33.7	139	29.1	--	--
9	--	--	--	--	--	--	29.8	27.9	109	29.1	--	--
10	--	--	--	--	--	--	27.9	23.8	99.5*	29.1	--	--
11	--	--	--	--	--	--	26.7	20.6	94.5	29.1	--	--
12	--	--	--	--	--	--	25.5	18.6	83.8	40.1	--	--
13	--	--	--	--	--	--	33.7	17.7	90.8	95.7	--	--
14	--	--	--	--	--	25.5	57.8	16.3	114	72.7	--	--
15	--	--	--	--	--	23.8	54.1	15.4	123	65.5	--	--
16	--	--	--	--	--	32.4	44.8	16.3	113	157	--	--
17	--	--	--	--	--	34.4	34.4	25.0	99.5	373	--	--
18	--	--	--	--	--	30.4	27.9	84.9	175	291	--	--
19	--	--	--	--	--	27.9	22.2	101	183	289	--	--
20	--	--	--	--	--	27.3	24.4	89.6	153	476	--	--
21	--	--	--	--	--	25.5	31.7	71.6	124	336	--	--
22	--	--	--	--	--	23.8	29.1	55.0	101	242	--	--
23	--	--	--	--	--	22.7	25.5	44.0	84.9	186	--	--
24	--	--	--	--	--	22.2	23.3	38.7	75.9	150	--	--
25	--	--	--	--	--	19.6	27.9	34.4	84.9	127	--	--
26	--	--	--	--	--	17.2	110	35.8	77.0	111	--	--
27	--	--	--	--	--	18.2	75.9	352	68.5	98.3	--	--
28	--	--	--	--	--	33.7	66.5	183	59.6	93.3	--	--
29	--	--	--	--	--	37.2	158	128	54.1	--	--	--
30	--	--	--	--	--	36.9I	120	98.3	48.9	--	--	--
31	--	--	--	--	--	--	99.5	77.0	--	--	--	--
MEAN	--	--	--	--	--	--	43.7	71.0	151	--	--	--
MAX.	--	--	--	--	--	--	158	352	512	--	--	--
MIN.	--	--	--	--	--	--	16.3	15.4	48.9	--	--	--

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

512 cfs on September 2

556 cfs on June 29, 1961

MAXIMUM INSTANTANEOUS

650 cfs at 9.30 p.m. on September 1

765 cfs at 4 p.m. on June 29, 1961

MINIMUM

15.4 cfs on August 15

11.2 cfs on August 26, 1961

MINIMUM INSTANTANEOUS

14.6 cfs at 10 a.m. on August 15

10.8 cfs at 3 p.m. on August 26, 1961

NOTES:

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 731 cfs and below 11.9 cfs.

Accuracy of records: good.

POUTRE

1.3 MI. FROM THE KANAAUPSCOW RIVER

STATION NUMBER 092701

DRAINAGE AREA - 65 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	343	118	11.5	142	46.4	64.5	41.7	--
2	--	--	--	--	229	306	11.1	107	86.1	58.7	38.7	--
3	--	--	--	--	301	352	15.0	84.9	68.5	55.0	34.4	--
4	--	--	--	--	357	248	18.6	68.5	60.6	53.2	34.4	--
5	--	--	--	--	248	174	19.1	55.0	55.0	45.6	31.0	--
6	--	--	--	--	172	130	15.9	44.0	48.1	43.2	27.9	--
7	--	--	--	--	124	102	13.0	37.2	48.1	41.7	34.4	--
8	--	--	--	--	99.5	83.8	14.2	32.4	48.1	41.7	41.7	--
9	--	--	--	--	86.1	69.5	22.2	30.4	41.7	41.7	70.6	--
10	--	--	--	--	68.5	59.6	21.1	30.4	40.1	41.7	75.9	--
11	--	--	--	--	61.6	51.5	19.6	30.4	37.2	41.7	--	--
12	--	--	--	--	60.6	47.2	16.8	30.4	40.1	35.8	--	--
13	--	--	--	--	68.5	38.7	15.0	29.1	40.1	34.4	--	--
14	--	--	--	--	87.3	30.4	17.2	24.4	34.4	34.4	--	--
15	--	--	--	--	93.3	26.7	55.0	24.4	33.0	34.4	--	--
16	--	--	--	--	107	26.1	78.1	22.2	33.0	34.4	--	--
17	--	--	--	--	145	26.1	61.6	20.6	29.1	34.4	--	--
18	--	--	--	--	137	25.5	63.5	18.6	31.7	29.1	--	--
19	--	--	--	--	157	24.4	142	16.3	33.0	27.9	--	--
20	--	--	--	--	352	20.1	107	18.6	33.0	27.9	--	--
21	--	--	--	--	398	19.6	102	18.6	32.4	27.9	--	--
22	--	--	--	--	277	19.6	74.8	18.6	27.3	27.9	--	--
23	--	--	--	--	190	15.4	67.5	18.6	27.3	28.5	--	--
24	--	--	--	--	145	14.6	86.1	17.2	23.8	34.4	--	--
25	--	--	--	--	120	14.2	69.5	14.6	23.8	37.9	--	--
26	--	--	--	--	115	14.2	54.1	12.2	70.6	57.8	--	--
27	--	--	--	--	223	13.4	60.6	12.2	103	56.8	--	--
28	--	--	--	549	384	10.8	74.8	55.0	86.1	58.7	--	--
29	--	--	--	724	252	11.1	215 *	68.5	79.2	52.4	--	--
30	--	--	--	700	183	13.4	227	50.6	73.8	49.8	--	--
31	--	--	--	--	144	--	192	41.7	--	46.4	--	--
MEAN	--	--	--	--	185	70.2	63.3	38.5	47.8	41.9	--	--
MAX.	--	--	--	--	398	352	227	142	103	64.5	--	--
MIN.	--	--	--	--	60.6	10.8	11.1	12.2	23.8	27.9	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

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MAXIMUM

724 cfs on April 29

724 cfs on April 29, 1963

MAXIMUM INSTANTANEOUS

811 cfs at 3 p.m. on April 29

811 cfs at 3 p.m. on April 29, 1963

MINIMUM

10.8 cfs on June 28

10.8 cfs on June 28, 1963

MINIMUM INSTANTANEOUS

10.1 cfs at 10 a.m. on June 28

10.1 cfs at 10 a.m. on June 28, 1963

NOTES:

* - Discharge measurement.
 Stage discharge relation is extrapolated above 731 cfs and below 11.9 cfs.
 Accuracy of records: fair.

SAKAMI

1.4 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092707

DRAINAGE AREA - 4200 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	16,600I	9,990	6,250	5,140	5,550	9,770	8,200E
2	--	--	--	--	--	16,500*	9,940*	6,210	4,990	5,590	9,750	8,000
3	--	--	--	--	--	16,200	9,940	6,160	4,980*	5,590	9,700	7,900
4	--	--	--	--	--	16,400	9,960	5,830	5,050	5,620	9,680	7,800
5	--	--	--	--	--	17,100	9,680	5,740	5,050	5,790	9,680	7,700
6	--	--	--	--	--	16,800	9,290	5,740	5,100	5,950	9,630E	7,600
7	--	--	--	--	--	16,200	9,060	5,740	5,050	5,990	9,600	7,400
8	--	--	--	--	--	15,700	9,150	5,610	5,090	6,000	9,600	7,300
9	--	--	--	--	--	15,600	9,020	5,490	4,950	6,050	9,600	7,200
10	--	--	--	--	--	15,800	8,670	5,450	4,940	6,050	9,600	7,100
11	--	--	--	--	--	15,800	8,590	5,420	5,100	6,350	9,600	7,000
12	--	--	--	--	--	15,300	8,530	5,330	5,130	6,600	9,660	6,900
13	--	--	--	--	--	15,000	8,200	5,390	5,110	6,810	9,700	6,800
14	--	--	--	--	--	14,500	7,980	5,520	5,170	7,050	9,780	6,700
15	--	--	--	--	--	14,400	7,980	5,540	5,180	7,340	9,600B	6,600
16	--	--	--	--	--	14,200	8,030	5,480	5,210	7,570	9,600	6,600
17	--	--	--	--	--	14,000	7,860	5,450	5,260	7,940	9,600	6,500
18	--	--	--	--	--	13,600	7,530	5,480*	5,480	8,340	9,500	6,400
19	--	--	--	--	--	13,500	7,270	5,510	5,480	8,570	9,400	6,300
20	--	--	--	--	--	13,100	7,090	5,510	5,360	8,650	9,400	6,200
21	--	--	--	--	--	12,400*	6,880	5,490	5,390	8,820	9,400	6,100
22	--	--	--	--	--	11,900	6,840	5,460	5,360	9,220	9,300	6,000
23	--	--	--	--	--	11,600	7,030*	5,430	5,360	9,360	9,100	5,900
24	--	--	--	--	--	11,600	7,020	5,100	5,390*	9,220	9,000	5,800
25	--	--	--	--	--	11,400	6,910	5,110	5,480	9,200	8,900	5,800
26	--	--	--	--	--	11,200	6,950	5,200	5,560	9,240	8,800	5,700
27	--	--	--	--	--	10,900*	6,950	5,210	5,590	9,310	8,700	5,600
28	--	--	--	--	--	10,600	6,650	5,510	5,610	9,540	8,600	5,500
29	--	--	--	--	--	10,400	6,530	5,390	5,620	9,730	8,400	5,400
30	--	--	--	--	--	10,200	6,420	5,320	5,560	9,770	8,300	5,300
31	--	--	--	--	--	--	6,400*	5,200	--	9,770	--	5,200
MEAN	--	--	--	--	--	14,000	8,010	5,520	5,260	7,630	9,370E	6,600E
MAX.	--	--	--	--	--	17,100	9,990	6,250	5,620	9,770	9,780E	8,200E
MIN.	--	--	--	--	--	10,200	6,400*	5,100	4,940	5,550	8,300E	5,200E

FOR THE YEAR 1960

MEAN

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MAXIMUM

17,100 cfs on June 5

MAXIMUM INSTANTANEOUS

17,200 cfs at 6 a.m. on June 5

MINIMUM

4,940 cfs on September 10

MINIMUM INSTANTANEOUS

4,910 cfs at 3 a.m. on September 10

NOTES:

* - Discharge measurement.

B - Ice effect from November 15

I - Interpolated.

E - Estimated from November 6

Stage discharge relation is extrapolated above 16,800 cfs and below 2,090 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

1.4 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092707

DRAINAGE AREA - 4200 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,200E	3,350E	2,400E	1,860E	3,180E	9,200E	8,400I	5,060	3,630	4,500	5,830	5,750E
2	5,150	3,310	2,390	1,850	3,320	9,100	8,250I	4,910	3,610	4,770	5,830	5,660
3	5,050	3,290	2,360	1,840	3,500	9,000E	8,200I	4,890	3,660	4,770	5,920	5,600
4	5,000	3,220	2,330	1,830	3,700	8,900	8,100I	4,860	3,660	4,820	6,550	5,580
5	4,900	3,200	2,300	1,820	3,900	8,800I	8,000I	4,850	3,560	4,930	7,020	5,500
6	4,850	3,160	2,290	1,810	4,190	8,700I	7,660	4,760	3,480	5,090	7,000	5,400
7	4,800	3,100	2,260	1,800	4,400	8,550I	7,800	4,730*	3,380	5,250	6,810	5,380
8	4,750	3,080	2,250	1,790	4,650	8,400I	7,720	4,730	3,440	5,250	6,810	5,250
9	4,690	3,020	2,220	1,780	4,900	8,280I	7,570	4,570	3,400	5,200	6,770	5,200
10	4,600	2,990	2,200	1,770	5,100B	8,200I	7,420	4,500	3,280	5,180	6,700	5,050
11	4,500	2,950	2,190	1,750	5,380	8,050I	7,380	4,440	3,220	5,280	6,690	5,000
12	4,450	2,900	2,170	1,750	5,650	7,950I	7,310	4,220	3,220	5,550	6,610B	4,920
13	4,390	2,870	2,150	1,750	5,900	7,850I	7,000	4,110	3,220	5,790	6,620	4,820
14	4,300	2,820	2,120	1,750	6,150	7,800I	6,890	3,990	3,160	5,650	6,650	4,800
15	4,250	2,800	2,100	1,760	6,550	7,700I	6,880	3,950	3,090*	5,460	6,650	4,730
16	4,200	2,780	2,090	1,770	6,650	7,680*	6,790	3,930	3,140	5,480	6,600	4,630
17	4,100	2,740	2,060	1,780	7,000	7,650I	6,740	3,850	3,150	5,560	6,550	4,600
18	4,050	2,700	2,040	1,790	7,200	7,600I	6,700	3,890	3,130	5,650	6,400	4,500
19	4,000	2,680	2,020	1,840	7,400	7,580I	6,620	3,940	3,290	5,790	6,300E	4,450
20	3,950	2,630	2,000	1,900	7,700	7,550I	6,550	3,900	3,640	5,790	6,200	4,400
21	3,900	2,610	1,990	1,960	7,900	7,500I	6,450	3,860	3,650	5,790	6,050	4,380
22	3,850	2,600	1,980	2,020	8,100	7,480I	6,370	3,830	3,710	5,760	5,930	4,300
23	3,800	2,580	1,970	2,120	8,500	7,460I	6,110	3,830	3,990	5,760	5,900	4,230
24	3,780	2,540	1,960	2,200	8,700	7,450I	6,000	3,810	4,030	5,860	5,860	4,200
25	3,700	2,510	1,950	2,340	9,000	7,450I	5,850	3,800	4,000	5,910	5,830	4,100
26	3,680	2,500	1,940	2,460	9,200	7,480I	5,610	3,780	4,060	5,940	5,800	4,050
27	3,600	2,490	1,920	2,600	9,300	7,500*	5,550	3,760	4,080	5,940	5,800	4,000
28	3,560	2,450	1,900	2,740	9,450	8,000I	5,520	3,660	4,060	5,920	5,790	3,950
29	3,530	--	1,890	2,890	9,400	8,480I	5,490	3,660	4,190	5,890	5,780	3,900
30	3,480*	--	1,880	3,000	9,400	8,500I	5,420	3,660	4,280	5,860	5,780	3,860
31	3,400	--	1,870	--	9,350	--	5,210	3,660	--	5,830	--	3,820
MEAN	4,240E	2,850E	2,100E	2,010E	6,600E	8,060	6,820	4,170	3,580	5,490	6,300E	4,710E
MAX.	5,200E	3,350E	2,400E	3,000E	9,450E	9,200E	8,400I	5,060	4,280	5,940	7,020	5,750E
MIN.	3,400E	2,450E	1,870E	1,750E	3,180E	7,450I	5,210	3,660	3,090*	4,500	5,780E	3,820E
M.F.C.	.891	.599	.441	.422	1.387	1.693	1.434	.877	.752	1.153	1.324	.989

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN 4,760 cfs

MAXIMUM 9,450E cfs on May 28

MAXIMUM INSTANTANEOUS

MINIMUM 1,750E cfs, April 11 to 14

MINIMUM INSTANTANEOUS

4,760 cfs

17,100 cfs on June 5, 1960

17,200 cfs at 6 a.m. on June 5, 1960

1,750E cfs, April 11 to 14, 1961

NOTES:

* - Discharge measurement.
 B - Ice affect to May 10 and from November 12.
 I - Interpolated.
 E - Estimated to June 3 and from November 19.
 Stage discharge relation is extrapolated above 16,800 cfs and below 2,090 cfs.
 Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

1.4 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092707

DRAINAGE AREA - 4200 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	3,760E	2,650E	2,190	1,840*	1,630	10,300	9,380	6,220	4,590	4,970	5,250E	5,150E
2	3,700	2,620	2,180	1,820	1,680	10,800	8,760	6,220	4,730	4,990	5,250	5,100
3	3,680	2,600	2,150	1,810	1,730	11,100	8,610	6,140	4,730	4,900	5,250	5,100
4	3,600	2,590E	2,140	1,800	1,840	11,400	8,550	6,020	4,780	4,840	5,250	5,100
5	3,560	2,570*	2,120	1,800	2,000	12,100	8,420	5,910	4,860	4,770	5,250	5,150
6	3,500	2,530	2,110	1,790	2,170	12,600	8,200	5,850	5,010	4,800	5,260	5,070
7	3,490	2,520	2,100*	1,780	2,400	12,600	8,050	5,790	5,050	4,900	5,260	5,060
8	3,430	2,500	2,090	1,760	2,580	12,700	7,900	5,580*	4,940	4,820	5,260	5,050
9	3,400	2,490	2,080	1,750	2,780	12,900	7,550	5,480	4,820	4,640	5,280	5,050
10	3,370	2,470	2,070	1,740	2,980B	12,900	7,380	5,460	4,710	4,640	5,300	5,000
11	3,330	2,450	2,050	1,730	3,100	12,500	7,270	5,450	4,690C	4,640	5,250	4,990
12	3,300	2,430	2,040	1,720	3,300	12,300	7,180	5,430	4,700	4,660	5,250	4,980
13	3,290	2,420	2,030	1,710	3,550	12,400	7,160	5,380	4,700	4,760	5,250	4,960
14	3,250	2,400	2,020	1,710	3,820	12,700	7,050	5,100	4,700	4,520	5,250	4,920
15	3,220	2,390	2,010	1,700	4,120	12,200	6,890	5,090	4,700	4,500E	5,250	4,900
16	3,200	2,380	2,000	1,690	4,500	12,200	6,650	5,100	4,750	4,480	5,250	4,900
17	3,150	2,360	1,990	1,680	4,900	11,900	6,640	5,140	4,750	4,450	5,250	4,870
18	3,100	2,340	1,980	1,670	5,350	11,500	6,520	5,140	4,750	4,420	5,250	4,850
19	3,070	2,320	1,970	1,660	5,800	11,500	6,250	5,090	4,780	4,500	5,250	4,800
20	3,020	2,300	1,960	1,660	6,100	11,400*	6,170	4,980	4,800	4,600	5,200	4,790
21	3,000	2,300	1,950	1,650	6,400	11,100	6,140	4,850	4,850	4,700	5,200	4,780
22	2,970	2,290	1,940	1,650	6,800	11,100	5,850	4,760	4,900	4,800	5,200	4,700
23	2,900	2,280	1,920	1,640	7,350	10,900	5,650	4,760	4,980C	4,900	5,200	4,650
24	2,890	2,270	1,910	1,630	7,800	10,500	5,610	4,800	5,100	4,950	5,200	4,600
25	2,850	2,240	1,900	1,620	8,350	10,100	5,650	4,860	5,100	5,000	5,170	4,580
26	2,820	2,230	1,890	1,610	8,780	9,750	5,800	4,800	4,910	5,100	5,160	4,500
27	2,800	2,220	1,880	1,610	9,050	9,700	5,850	4,860	4,840	5,180	5,160	4,450
28	2,780	2,200	1,870	1,610	9,300	9,920	5,940	4,690	4,840	5,200	5,150	4,350
29	2,740	--	1,860	1,610	9,500	9,940	6,210	4,590	4,840	5,200	5,150	4,300
30	2,720	--	1,850	1,610	9,950	9,730	6,240	4,580	4,780	5,200	5,150	4,250
31	2,690	--	1,840	--	10,000	--	6,300	4,500	--	5,200B	--	4,200
MEAN	3,180E	2,410	2,000	1,700	5,160	11,400	6,960	5,250	4,820E	4,810E	5,230E	4,810E
MAX.	3,760E	2,650E	2,190	1,840*	10,000	12,900	9,380	6,220	5,100	5,200E	5,300E	5,150E
MIN.	2,690E	2,200	1,840	1,610	1,630	9,700	5,610	4,500	4,590	4,420E	5,150E	4,200E
M.F.C.	.659	.498	.415	.352	1.070	2.369	1.443	1.087	1.000	.998	1.083	.997

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

4,820 cfs

4,790 cfs

MAXIMUM

12,900 cfs on June 9 and 10

17,100 cfs on June 5, 1960

MAXIMUM INSTANTANEOUS

17,200 cfs at 6 a.m. on June 5, 1960

MINIMUM

1,610 cfs, April 26 to 30

1,610 cfs, April 26 to 30, 1962

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from October 31.

C - By comparison with Sakami Lake, September 11 to 23.

E - Estimated to February 4 and from October 15.

Stage discharge relation is extrapolated above 16,800 cfs and below 2,090 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

1.4 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092707

DRAINAGE AREA - 4200 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	4,100E	2,680E	1,920	1,510	4,270	11,800	9,490	6,890	4,460C	3,820E	3,640E	4,780B
2	4,000	2,620	1,900	1,510	4,410	12,300	9,450	7,000	4,400	3,810	3,640	4,800E
3	3,850	2,600E	1,890	1,500	4,690	13,000	9,450	7,000	4,390	3,800	3,640	4,820
4	3,850	2,580*	1,870*	1,500	5,110	13,100	9,130	6,820	4,360	3,790	3,650	4,830
5	3,800	2,520	1,840	1,500	5,310	13,300	8,760	6,520	4,300	3,780	3,650	4,850
6	3,750	2,500	1,820	1,500	5,460	13,600	8,380	6,480	4,280	3,760	3,660	4,840
7	3,700	2,480	1,810	1,500	5,610	13,600	8,360	6,480	4,250	3,740	3,660	4,820
8	3,650	2,450	1,800	1,500	5,830	13,600	8,260	6,480	4,230	3,720	3,670	4,800
9	3,600	2,430	1,780	1,500	5,950	13,600	8,160	6,480	4,200	3,710	3,680	4,750
10	3,550	2,400	1,760	1,500	6,130	13,600	7,980	6,300	4,180	3,700	3,690B	4,700
11	3,500	2,370	1,750	1,500	6,420	13,600	7,800I	6,060	4,150C	3,700	3,690	4,650
12	3,450	2,330	1,730	1,500	6,620	13,600	7,650I	5,970I	4,160	3,700	3,690	4,600
13	3,400	2,300	1,720	1,510	6,790	13,700*	7,580I	5,850I	4,190I	3,700	3,690	4,500
14	3,350	2,290	1,700	1,520	6,810	13,600	7,500I	5,800I	4,150I	3,700	3,700	4,400
15	3,320	2,260	1,690	1,520	6,980	13,400I	7,420I	5,800I	4,100I	3,700	3,710	4,350
16	3,300	2,240	1,680	1,530	7,250	13,300I	7,300I	5,750I	4,060I	3,690	3,740	4,300
17	3,250	2,200	1,670	1,550	7,610	13,200I	7,050I	5,650I	4,030I	3,690	3,780	4,250
18	3,200	2,180	1,650	1,600	7,760	13,000I	6,920I	5,500	4,000I	3,690	3,820	4,150
19	3,170	2,160	1,630	1,700	7,840	12,800I	6,850I	5,410	4,000I	3,690	3,870	4,100
20	3,130	2,140	1,620	1,930	8,020	12,700I	6,800I	5,410	3,990I	3,690	3,900B	4,000
21	3,100	2,100	1,610	2,180	8,240I	12,400I	6,820	5,330	3,980I	3,670	4,000	3,960
22	3,050	2,090	1,600	2,370B	8,400I	12,000I	6,810	5,170	3,980I	3,660	4,050	3,900
23	3,000	2,060	1,590	2,540	8,900I	11,800I	6,650	5,070	3,970I	3,650	4,150	3,850
24	2,980	2,030	1,580	2,750	9,200I	11,500I	6,520	4,890	3,920I	3,650	4,200	3,800
25	2,930	2,020	1,570	2,870	9,550I	11,300I	6,480	4,750C	3,900I	3,640	4,300	3,750
26	2,900	2,000	1,560	3,070	9,800I	11,200I	6,470	4,700	3,900I	3,640	4,400	3,700
27	2,870	1,980	1,550	3,330	10,000I	11,000I	6,480	4,650	3,870I	3,640	4,500	3,650
28	2,830	1,950	1,550	3,800	10,400I	10,500*	6,480	4,600	3,850I	3,640	4,600	3,600
29	2,800	--	1,540*	4,140	10,600I	10,200	6,480	4,580	3,850	3,640	4,700	3,500
30	2,750	--	1,530	4,140	11,000I	9,940	6,320	4,520	3,850E	3,640	4,750	3,450
31	2,720	--	1,520	--	11,400I	--	6,470	4,500	--	3,640	--	3,350
MEAN	3,320E	2,280	1,690	2,070	7,500	12,500	7,490	5,690E	4,100E	3,700E	3,930E	4,250E
MAX.	4,100E	2,680E	1,920	4,140	11,400I	13,700*	9,490	7,000	4,460C	3,820E	4,750E	4,850E
MIN.	2,720E	1,950	1,520	1,500	4,270	9,940	6,320	4,500C	3,850I	3,640E	3,640F	3,350F
M.F.C.	.678	.466	.345	.422	1.531	2.563	1.531	1.163	.837	.756	.802	.868

FOR THE YEAR 1963

MEAN 4,890 cfs

MAXIMUM 13,700 cfs on June 13

MAXIMUM INSTANTANEOUS 13,900 cfs at 3 p.m. on June 13

MINIMUM 1,500 cfs, April 3 to 12

MINIMUM INSTANTANEOUS

FOR ALL THE YEARS RECORDED (3 Years)

4,830 cfs

17,100 cfs on June 5, 1960

17,200 cfs at 6 a.m. on June 5, 1960

1,500 cfs, April 3 to 12, 1963

NOTES:

* - Discharge measurement.

B - Ice effect to April 22, November 10 to 20 and from December 1.

I - Interpolated.

C - By comparison with Sakami Lake, August 25 to September 11.

E - Estimated to February 3 and from September 30.

Stage discharge relation is extrapolated above 16,800 cfs and below 2,090 cfs.

Accuracy of records: fair.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI LAKE

STATION NUMBER 092713

GAUGE - RECORDING

STATION IN OPERATION SINCE 1962

DAILY WATER ELEVATION IN FEET FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	96.38	--	--	--	--
2	--	--	--	--	--	--	--	96.29	--	--	--	--
3	--	--	--	--	--	--	--	96.31	--	--	--	--
4	--	--	--	--	--	--	96.98	96.32	--	--	--	--
5	--	--	--	--	--	--	96.99	96.29	--	--	--	--
6	--	--	--	--	--	--	96.93	96.20	--	--	--	--
7	--	--	--	--	--	--	96.87	96.18	95.81	--	--	--
8	--	--	--	--	--	--	96.74	96.20	95.84	--	--	--
9	--	--	--	--	--	--	96.68	96.22	95.76	--	--	--
10	--	--	--	--	--	--	--	96.23	95.85	--	--	--
11	--	--	--	--	--	--	--	96.18	95.81	--	--	--
12	--	--	--	--	--	--	--	96.12	95.85	--	--	--
13	--	--	--	--	--	--	--	96.08	95.90	--	--	--
14	--	--	--	--	--	--	--	96.11	95.82	--	--	--
15	--	--	--	--	--	--	--	96.19	95.76	--	--	--
16	--	--	--	--	--	--	--	96.18	95.79	--	--	--
17	--	--	--	--	--	--	--	96.28	95.83	--	--	--
18	--	--	--	--	--	--	--	96.14	95.83	--	--	--
19	--	--	--	--	--	--	--	96.13	95.70	--	--	--
20	--	--	--	--	--	--	--	96.08	95.80	--	--	--
21	--	--	--	--	--	--	--	96.10	95.82	--	--	--
22	--	--	--	--	--	--	--	96.10	95.89	--	--	--
23	--	--	--	--	--	--	--	96.16	96.03	--	--	--
24	--	--	--	--	--	--	--	96.12	95.87	--	--	--
25	--	--	--	--	--	--	--	96.07	95.86	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	95.98	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	96.38	--	--	--	--	--
31	--	--	--	--	--	--	96.44	--	--	--	--	--
	--	--	--	--	--	--	96.36	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1962

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

96.99 feet on July 5

97.04 feet at 8 a.m. on July 5

95.70 feet on September 19

95.60 feet at noon on September 19

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 092713 A, elevation 100.00 feet.

SAKAMI LAKE

STATION NUMBER 092713

GAUGE - RECORDING

STATION IN OPERATION SINCE 1962

DAILY WATER ELEVATION IN FEET FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	95.01	--	--	--	--	97.31	96.51	95.95	--	--	--
2	--	--	--	--	--	--	97.20	96.47	95.99	--	--	--
3	--	--	--	--	--	--	97.04	96.43	96.00	--	--	--
4	--	--	94.53	--	--	--	97.03	96.41	95.97	--	--	--
5	--	--	--	--	--	--	96.95	96.47	95.94	--	--	--
6	--	--	--	--	--	--	96.99	96.51	95.85	--	--	--
7	--	--	--	--	--	--	96.86	--	96.03	--	--	--
8	--	--	--	--	--	--	96.84	--	95.93	--	--	--
9	--	--	--	--	--	--	96.81	--	95.99	--	--	--
10	--	--	--	--	--	--	96.79	--	95.94	--	--	--
11	--	--	--	--	--	--	96.77	--	95.92	--	--	--
12	--	--	--	--	--	--	96.77	--	95.99	--	--	--
13	--	--	--	--	--	98.17	96.76	--	95.79	--	--	--
14	--	--	--	--	--	98.17	96.66	--	--	--	--	--
15	--	--	--	--	--	98.14	96.55	--	--	--	--	--
16	--	--	--	--	--	98.16	96.55	--	--	--	--	--
17	--	--	--	--	--	98.05	96.56	--	--	--	--	--
18	--	--	--	--	--	98.05	96.57	--	--	--	--	--
19	--	--	--	--	--	97.94	96.56	--	95.52	--	--	--
20	--	--	--	--	--	97.81	96.56	--	--	--	--	--
21	--	--	--	--	--	97.74	96.55	--	--	--	--	--
22	--	--	--	--	--	97.76	96.48	--	--	--	--	--
23	--	--	--	--	--	97.75	96.48	95.95	--	--	--	--
24	--	--	--	--	--	97.68	96.49	95.98	--	--	--	--
25	--	--	--	--	--	97.64	96.47	95.93	--	--	--	--
26	--	--	--	--	--	97.60	96.48	95.93	--	--	--	--
27	--	--	--	--	--	97.43	96.49	95.92	--	--	--	--
28	--	--	94.27	--	--	97.45	96.46	95.93	--	--	--	--
29	--	--	--	--	--	97.36	--	--	--	--	--	--
30	--	--	--	--	--	97.25	--	95.91	--	--	--	--
31	--	--	--	--	--	--	--	95.91	--	--	--	--
MEAN	--	--	--	--	--	--	96.72	--	--	--	--	--
MAX.	--	--	--	--	--	--	97.31	--	--	--	--	--
MIN.	--	--	--	--	--	--	96.46	--	--	--	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

98.17 feet on June 13

98.17 feet on June 13, 1963

98.20 feet at 7 p.m. on June 13

98.20 feet at 7 p.m. on June 13, 1963

94.27 feet on March 28

94.27 feet on March 28, 1963

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. 092713 A, elevation 100.00 feet.

SAKAMI

18.1 MI. UPSTREAM FROM SAKAMI LAKE

STATION NUMBER 092709

DRAINAGE AREA - 700 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	1,280	1,830*	--	--	--
2	--	--	--	--	--	--	--	1,380	--	--	--	--
3	--	--	--	--	--	--	--	1,400	--	--	--	--
4	--	--	--	--	--	--	--	1,420	--	--	--	--
5	--	--	--	--	--	--	--	1,530	--	--	--	--
6	--	--	--	--	--	--	--	1,520	--	--	--	--
7	--	--	--	--	--	--	--	1,530	--	--	--	--
8	--	--	--	--	--	--	--	1,490	1,530*	--	--	--
9	--	--	--	--	--	--	--	1,450	--	--	--	--
10	--	--	--	--	--	--	--	1,370	--	--	--	--
11	--	--	--	--	--	--	--	1,300	--	--	--	--
12	--	--	--	--	--	--	--	1,280	--	--	--	--
13	--	--	--	--	--	--	--	1,250	1,450*	--	--	--
14	--	--	--	--	--	--	--	1,230	--	--	--	--
15	--	--	--	--	--	--	--	1,400	--	--	--	--
16	--	--	--	--	--	--	--	1,500	--	--	--	--
17	--	--	--	--	--	--	--	1,670	--	--	--	--
18	--	--	--	--	--	--	--	1,780	--	--	--	--
19	--	--	--	--	--	--	--	1,890	--	--	--	--
20	--	--	--	--	--	--	--	1,950	--	--	--	--
21	--	--	--	--	--	--	1,490*	2,030*	--	--	--	--
22	--	--	--	--	--	--	1,460	1,990	--	--	--	--
23	--	--	--	--	--	--	1,470	1,990	--	--	--	--
24	--	--	--	--	--	--	1,420*	2,000	1,640*	--	--	--
25	--	--	--	--	--	--	1,350	2,010	--	--	--	--
26	--	--	--	--	--	--	1,260	2,010	--	--	--	--
27	--	--	--	--	--	--	1,140	1,950	--	--	--	--
28	--	--	--	--	--	--	1,110	1,990	--	--	--	--
29	--	--	--	--	--	--	1,080	1,980	--	--	--	--
30	--	--	--	--	--	--	1,070	1,900	--	--	--	--
31	--	--	--	--	--	--	1,060	1,870	--	--	--	--
MEAN	--	--	--	--	--	--	--	1,660	--	--	--	--
MAX.	--	--	--	--	--	--	--	2,030*	--	--	--	--
MIN.	--	--	--	--	--	--	--	1,230	--	--	--	--

FOR THE YEAR 1960

MEAN

--

MAXIMUM

2,030 cfs on August 21

MAXIMUM INSTANTANEOUS

2,090 cfs on August 21 at noon

MINIMUM

1,060 cfs on July 31

MINIMUM INSTANTANEOUS

1,050 cfs on July 31 at 11 a.m.

NOTES

* - Discharge measurement.

Stage discharge relation is extrapolated above 4,270 cfs and below 290 cfs.

Accuracy of records: good.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

18.1 MI. UPSTREAM FROM SAKAMI LAKE

STATION NUMBER 092709

DRAINAGE AREA - 700 SQ. MI. **

STATION IN OPERATION SINCE 1960

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	1,210*	--	--	--	--	--
7	--	--	--	--	--	--	--	483*	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	1,670*	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	1,040*	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	1,490*	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	889*	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	1,170*	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	286*	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

1,670 cfs on June 14

2,030 cfs on August 21, 1960

MAXIMUM INSTANTANEOUS

2,090 cfs on August 21, 1960 at noon

MINIMUM

286 cfs on January 31

286 cfs on January 31, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

Stage discharge relation is extrapolated above 4,270 cfs and below 290 cfs.

Accuracy of records: good.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

18.1 MI. UPSTREAM FROM SAKAMI LAKE

STATION NUMBER 092709

DRAINAGE AREA - 700 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	1,350I	1,450I	751	1,560	1,210	472E
2	--	--	--	--	--	--	1,290I	1,460I	1,010	1,530	1,170	470
3	--	170*	--	--	--	--	1,230I	1,480I	1,010	1,470	1,070	465
4	--	--	101*	--	--	--	1,180	1,480I	1,030	1,440	1,010	460
5	--	--	--	--	--	--	1,060	1,460	1,140	1,400	1,010	459
6	--	--	--	--	--	--	975	1,430	1,220	1,320	969	455
7	--	--	--	--	--	--	918	1,380	1,270	1,240	901	450
8	--	--	--	--	--	--	863	1,350	1,280	1,210	846	444
9	--	--	--	--	--	--	857	1,300I	1,280	1,150	796	440
10	--	--	--	--	--	--	918	1,250I	1,270	1,090	846B	438
11	--	--	--	--	--	--	907	1,200I	1,240	1,040	796	432
12	--	--	--	--	--	--	885	1,130I	1,220	986	745	427
13	--	--	--	--	--	--	857	1,090I	1,210	958	700	422
14	--	--	--	--	--	--	869	1,040*	1,230	907	658	420
15	--	--	--	--	--	--	847	993	1,330	901	604	413
16	--	--	--	--	--	--	819	969	1,390	963	568	407
17	--	--	--	--	--	--	779	969	1,420	1,330	538	402
18	--	--	--	--	--	--	746	1,000	1,470	1,350	510	400
19	--	--	--	--	--	--	723	1,010	1,560	1,380	500E	393
20	--	--	--	--	--	--	746	987	1,740	1,560	490	389
21	--	--	--	--	--	--	748I	924	1,790	1,630	486	383
22	--	--	--	--	--	--	742I	852	1,850	1,640	486	378
23	--	--	--	--	--	--	727I	791	1,860	1,700	486	372
24	--	--	--	--	--	--	718	740	1,860	1,520	486	366
25	--	--	--	--	--	--	751	707	1,860	1,650	486	358
26	--	--	--	--	--	--	790I	669	1,830	1,640	485	354
27	--	--	--	--	--	--	850I	631	1,770	1,570	483	349
28	--	--	--	--	--	--	1,050	589	1,710	1,510	481	340
29	--	--	--	--	--	--	1,280	584	1,660	1,420	480	330
30	--	--	--	--	--	--	1,400I	599	1,600	1,350	478	323
31	--	--	--	--	--	--	1,430I	565	--	1,250	--	315
MEAN	--	--	--	--	--	--	945	1,030	1,430	1,340	692E	404E
MAX.	--	--	--	--	--	--	1,430I	1,480I	1,860	1,700	1,210	472E
MIN.	--	--	--	--	--	--	718	565	751	901	478E	315E

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

1,860 cfs, September 23 to 25

101 cfs on March 4

2,030 cfs on August 21, 1960

2,090 cfs on August 21, 1960 at noon

101 cfs on March 4, 1962

NOTES

* - Discharge measurement.

B - Ice effect from November 10.

I - Interpolated.

E - Estimated from November 19.

Stage discharge relation is extrapolated above 4,270 cfs and below 290 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

18.1 MI. UPSTREAM FROM SAKAMI LAKE

STATION NUMBER 092709

DRAINAGE AREA - 700 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	313E	178E	134E	114E	377E	6,240E	1,710	1,710	488	880	529	600B
2	305	176	134	114	421	6,460	1,560	1,820	512	880	522	610E
3	296	173	133	113	464	6,610	1,490*	1,820	542	880	500	625
4	290	170	131*	113	540	6,680	1,460	1,770	610	880	490	642
5	282	168*	130	112	595	6,760	1,410	1,640	647	880	473	658
6	279	167	129	112	680	6,760	1,340	1,540	625	930	471	662
7	272	165	128	112	804	6,680	1,300	1,390	604	930	486B	664
8	270	162	127	112	925	6,610	1,410	1,350	584	930	490	662
9	263	160	127	111	1,060	6,540	1,400	1,310	589	930	512	658
10	259	158	126	111	1,170B	6,460	1,360	1,200	604I	924	530	644
11	250	156	125	112	1,320	6,240	1,340	1,140	613I	880	529	638
12	248	155	125	113	1,480	5,960E	1,290	1,060	617I	869	529	622
13	245	154	124	114	1,670	5,850	1,240	1,030	604I	813	526	602
14	239	152	124	115	1,880	5,580	1,240	941	589	757	510	589
15	235	150	123	118	2,100	5,300	1,250	885	568	685	506	573
16	232	149	121	120	2,380	5,080	1,250	874	542	658	490	552
17	227	148	121	121	2,650	4,880	1,240	785	548	658	485	536
18	225	147	120	124	2,940	4,650*	1,250	763	610	647	481	510
19	219	146	119	128	3,180	4,350	1,530	669	785	604	484E	497
20	216	146	119	131	3,440	4,060	1,540*	658	791	578	489B	480
21	212	144	119	139	3,600	3,760	1,580	658	803	558	493	462
22	208	143	118	148	3,870	3,430	1,520	658	813	545	500	443
23	206	141	118	159	4,130	3,150	1,470	658	822	529	507	428
24	203	139	118	167	4,350	2,930	1,430	604	813	551	518	416
25	200	138	117	176	4,640	2,730	1,360	558	763	558	523	400
26	197	137	116	204	4,890	2,530	1,310	524	763	558	536	382
27	192	136	116	227	5,050	2,320	1,270	510	869	558	542	369
28	190	136	115*	263	5,290	2,150	1,140	498I	935	558	558	352
29	187	--	115	290	5,530	1,990	1,190	498I	935	558	570	335
30	184	--	115	339	5,780	1,830	1,490	504*	935	558	580	320
31	182	--	115	--	5,960	--	1,590	502I	--	542	--	310
MEAN	236E	153E	123E	148E	2,680E	4,820E	1,390	985	684	718	512E	524E
MAX.	313E	178E	134E	339E	5,960E	6,760E	1,710	1,820	935	930	580E	664E
MIN.	182E	136E	115*	111E	377E	1,830	1,140	498I	488	529	471	310E
M.F.C.	.218	.141	.113	.136	2.476	4.447	1.279	.908	.631	.662	.472	.483

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

1,080 cfs

1,080 cfs

MAXIMUM

6,760E cfs on June 5 and 6

6,760E cfs on June 5 and 6, 1963

MAXIMUM INSTANTANEOUS

MINIMUM

111E cfs on April 9 and 10

101 cfs on March 4, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 10, November 7 to 20, and from December 1.

I - Interpolated.

E - Estimated to June 12 and from November 19.

Stage discharge relation is extrapolated above 6,750 cfs and below 290 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - This figure excludes an area of 4,920 square miles of which the flow is divided between Masta Channel and De Pontois and Sakami Rivers.

SAKAMI

1.5 MI. DOWNSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092712

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	971	298	1,210	713	--	--
2	--	--	--	--	--	--	907	301	1,120	788	--	--
3	--	--	--	--	--	--	861	298	1,110	817	--	--
4	--	--	--	--	--	--	907	327	1,070	839	--	--
5	--	--	--	--	--	--	923	350	1,040	915	--	--
6	--	--	--	--	--	--	988*	370	1,010*	1,060	--	--
7	--	--	--	--	--	--	1,080	391	963	1,220	--	--
8	--	--	--	--	--	--	1,130	395	876	1,380	--	--
9	--	--	--	--	--	--	1,120	417	846	1,660	--	--
10	--	--	--	--	--	--	1,130	435	831	1,870	--	--
11	--	--	--	--	--	--	1,130	454	810	2,030	--	--
12	--	--	--	--	--	--	1,060	493	754	2,180	--	--
13	--	--	--	--	--	--	1,020	562	720	2,220	--	--
14	--	--	--	--	--	--	988	596	681	2,260	--	--
15	--	--	--	--	--	--	979	638	650*	2,300	--	--
16	--	--	--	--	--	--	907	720	638	2,300	--	--
17	--	--	--	--	--	--	810	817	626	2,300	--	--
18	--	--	--	--	--	--	740	915	579	2,250	--	--
19	--	--	--	--	--	--	675	979*	557	2,150	--	--
20	--	--	--	--	--	2,060	632	1,060	562	2,150	--	--
21	--	--	--	--	--	1,920	602	1,120	562	2,060	--	--
22	--	--	--	--	--	1,760	562	1,230	562	1,950	--	--
23	--	--	--	--	--	1,650	509	1,310	535	1,910	--	--
24	--	--	--	--	--	1,540	474	1,400	535	1,870	--	--
25	--	--	--	--	--	1,380	440	1,450	573	1,840	--	--
26	--	--	--	--	--	1,260	422	1,520	568	1,840	--	--
27	--	--	--	--	--	1,250	387	1,550*	568	1,760	--	--
28	--	--	--	--	--	1,140	338	1,450	590	1,730	--	--
29	--	--	--	--	--	1,060	308*	1,410	608	1,580I	--	--
30	--	--	--	--	--	1,020	319	1,340	662	1,540I	--	--
31	--	--	--	--	--	--	298	1,270	--	1,450I	--	--
MEAN	--	--	--	--	--	--	762	834	747	1,710	--	--
MAX.	--	--	--	--	--	--	1,130	1,550*	1,210	2,300	--	--
MIN.	--	--	--	--	--	--	298	298	535	713	--	--

FOR THE YEAR 1960

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

2,300 cfs on October 15, 16 and 17

2,320 cfs on October 15 at 5 p.m.

298 cfs on July 31 and August 1

294 cfs on August 1 at 8 p.m.

NOTES

* - Discharge measurement.

I - Interpolated.

Stage discharge relation is extrapolated above 1,690 cfs and below 129 cfs.

Accuracy of records: fair.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.
 Discharges based on stage-discharge relation established with water levels at Station No. 092711.

SAKAMI

1.5 MI. DOWNSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092712

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961													
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1	--	--	--	--	--	2480	I 385	32.0 *	24.0 E	11.2	312	--	
2	--	--	--	--	--	2410	I 378	29.3	22.0	14.9	312	--	
3	--	--	--	--	--	2320	365	24.9	20.5	20.4	316	--	
4	--	--	--	--	--	2200	360	24.3	19.0	26.1	331	--	
5	--	--	--	--	--	2030	354	23.1	17.5	30.6	338	--	
6	--	--	--	--	--	1850	348	23.7	15.0	50.6	316	--	
7	--	--	--	--	--	1690	* 340	25.5	14.0	62.3	--	--	
8	--	--	--	--	--	1490	336	19.4	12.5	72.0	--	--	
9	--	--	--	--	--	1420	331	17.0	11.0	75.9	--	--	
10	--	--	--	--	--	1200	324	14.9	10.3	96.1	--	--	
11	--	--	--	--	--	1150	320	13.3	9.00	131	--	--	
12	--	--	--	--	--	1070	310	11.8	8.30	158	--	--	
13	--	--	--	--	--	947	300	10.6	7.40	154	--	--	
14	--	--	--	--	--	861	280	13.7	6.60	154	--	--	
15	--	--	--	--	--	767	267	13.7	6.20	165	--	--	
16	--	--	--	--	--	713	233	10.3	6.00	170	--	--	
17	--	--	--	--	--	681	219	11.2	5.80	222	--	--	
18	--	--	--	--	--	656	208	11.5	5.80*	255	--	--	
19	--	--	--	--	--	675	187	13.3	5.80	251	--	--	
20	--	--	--	--	--	626	161	16.1	5.90	239	--	--	
21	--	--	--	--	--	590	141	18.0 I	6.20	239	--	--	
22	--	--	--	--	--	498	* 123	20.0 I	6.50	271	--	--	
23	--	--	--	--	--	480	C 114	23.0 I	6.70	305	--	--	
24	--	--	--	--	--	460	111	26.7	7.00	316	--	--	
25	--	--	--	--	--	445	99.2	28.6	7.20	323	--	--	
26	--	--	--	--	--	436	81.3	28.6	7.55	327	--	--	
27	--	--	--	--	--	425	72.0	28.6	8.20	334	--	--	
28	--	--	--	--	--	415	55.7	28.6	8.80	334	--	--	
29	--	--	--	--	--	407	45.9	28.6	9.60	319	--	--	
30	--	--	--	--	--	392	44.0	28.0	10.2 E	312	--	--	
31	--	--	--	--	--	--	39.7	25.5	--	312	--	--	
MEAN	--	--	--	--	--	1060	E 224	20.8	10.4 E	186	--	--	
MAX.	--	--	--	--	--	2480	I 385	32.0 *	24.0 E	334	--	--	
MIN.	--	--	--	--	--	392	C 39.7	10.3	5.80E	11.2	--	--	

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

2,480I cfs on June 1

2,480I cfs on June 1, 1961

MAXIMUM INSTANTANEOUS

MINIMUM

5.80E cfs on September 17, 18 and 19

5.80E cfs on September 17, 18 and 19, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

I - Interpolated.

C - By comparison with De Pontois River, 2.8 miles from the Grande Rivière, June 23 to July 14.

E - Estimated September 1 to 30.

Stage discharge relation is extrapolated above 1,690 cfs and below 129 cfs.

Accuracy of records: fair.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

Discharges based on stage-discharge relation established with water levels at Station No. 092711.

SAKAMI

1.5 MI. DOWNSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092712

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	5,670	681	644	255	803	--	--
2	--	--	--	--	--	5,420	596	681	264	760	--	--
3	--	--	--	--	--	5,190	602	700	316	700	--	--
4	--	--	--	--	--	5,130	535	727	338	668	--	--
5	--	--	--	--	--	4,980	493	740	354	668	--	--
6	--	--	--	--	--	4,980	493	694	370	668	--	--
7	--	--	--	--	--	4,870	449	681	417*	632	--	--
8	--	--	--	--	--	4,850	391	681	530	585	--	--
9	--	--	--	--	--	4,800	342	694*	535	504	--	--
10	--	--	--	--	--	4,470	338	675	551	498	--	--
11	--	--	--	--	--	4,210	323	650	557	498	--	--
12	--	--	--	--	--	3,960	323	585	562	498	--	--
13	--	--	--	--	--	3,800	323	524	562	454	--	--
14	--	--	--	--	--	3,480	323	519	562	426	--	--
15	--	--	--	--	--	3,360	323	498	562	370	--	--
16	--	--	--	--	395	3,030	331	483	562	362	--	--
17	--	--	--	--	668	2,670	327	449	562	362	--	--
18	--	--	--	--	1,340	2,470	334	408	562	--	--	--
19	--	--	--	--	2,220	2,250	342	391	562	--	--	--
20	--	--	--	--	2,800	2,010	342	374	579	--	--	--
21	--	--	--	--	3,420	1,880	346	342	608	--	--	--
22	--	--	--	--	4,050	1,830	334	331	662	--	--	--
23	--	--	--	--	4,640	1,640	334	331	810	--	--	--
24	--	--	--	--	5,220	1,380	338	327	831	--	--	--
25	--	--	--	--	5,780	1,270	334	301	810	--	--	--
26	--	--	--	--	6,000	1,140	358	294	861	--	--	--
27	--	--	--	--	6,030	1,040	370	287	846	--	--	--
28	--	--	--	--	6,120	971	431	284	869	--	--	--
29	--	--	--	--	6,000	854	509	281	861	--	--	--
30	--	--	--	--	5,860	810	573	267	810	--	--	--
31	--	--	--	--	5,810	--	602	255	--	--	--	--
MEAN	--	--	--	--	--	3,150	411	487	584	--	--	--
MAX.	--	--	--	--	--	5,670	681	740	869	--	--	--
MIN.	--	--	--	--	--	810	323	255	255	--	--	--

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

6,120 cfs on May 28

6,460 cfs on May 28 at 10 p.m.

255 cfs on August 31 and September 1

248 cfs on September 1 at midnight

6,120 cfs on May 28, 1962

6,460 cfs on May 28, 1962 at 10 p.m.

5,80E cfs on September 17, 18 and 19, 1961

NOTES

* - Discharge measurement.
 Stage discharge relation is extrapolated above 1,690 cfs and below 129 cfs.
 Accuracy of records: fair.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.
 Discharges based on stage discharge relation established with water levels at Station No. 092711.

SAKAMI

1.5 MI. DOWNSTREAM FROM DE PONTOIS RIVER

STATION NUMBER 092712

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	5700	1060	540	46.8	14.1	--	--
2	--	--	--	--	--	5700	931	546	44.9	16.6	--	--
3	--	--	--	--	--	6240	824	551	35.7	18.4	--	--
4	--	--	--	--	--	6430	810	620	35.7	26.1	--	--
5	--	--	--	--	--	6860	810	602	36.5	36.5	--	--
6	--	--	--	--	--	7290	803	590	38.1	37.3	--	--
7	--	--	--	--	--	7510	760	579	34.2	40.6	--	--
8	--	--	--	--	--	7360	713	568	29.9	42.3	--	--
9	--	--	--	--	--	6990	713	524	29.3	56.8	--	--
10	--	--	--	--	--	6690	713	493	23.1	67.1	--	--
11	--	--	--	--	--	6670	720	454	26.1	67.1	--	--
12	--	--	--	--	--	6300	687	387	22.6	73.3	--	--
13	--	--	--	--	--	6000	662	338	22.0	79.9	--	--
14	--	--	--	--	--	5670	632	327	20.9	79.9	--	--
15	--	--	--	--	--	5140	602	287	18.9	79.9	--	--
16	--	--	--	--	--	4600	602	277	14.9	79.9	--	--
17	--	--	--	--	--	4260	551	258	12.6	81.3	--	--
18	--	--	--	--	--	3870	504	233	16.1	81.3	--	--
19	--	--	--	--	--	3460	504	227	12.9	81.3	--	--
20	--	--	--	--	--	3050	546	197	12.9	62.3	--	--
21	--	--	--	--	--	2890	524	175	10.0	56.8	--	--
22	--	--	--	--	--	2560	557	158	9.70	56.8	--	--
23	--	--	--	--	--	2510	519	137	10.3	54.7	--	--
24	--	--	--	--	--	2210	509	118	10.3	46.8	--	--
25	--	--	--	--	--	1950	557	101	11.5	46.8	--	--
26	--	--	--	--	--	1800	493	85.6	13.3	46.8	--	--
27	--	--	--	--	--	1650	498	73.3	12.9	41.4	--	--
28	--	--	--	--	--	1510	509	73.3	13.7	38.1	--	--
29	--	--	--	--	--	1400	514	61.2	14.1	37.0 I	--	--
30	--	--	--	--	--	1230	524	52.6	14.1	36.0 I	--	--
31	--	--	--	--	--	--	530	51.6	--	35.0 I	--	--
MEAN	--	--	--	--	--	4520	641	312	21.8	52.2	--	--
MAX.	--	--	--	--	--	7510	1060	620	46.8	81.3	--	--
MIN.	--	--	--	--	--	1230	493	51.6	9.70	14.1	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

7,510 cfs on June 7

7,690 cfs on June 7 at 8 p.m.

9.70 cfs on September 22

9.44 cfs on September 23 at 6 a.m.

7,510 cfs on June 7, 1963

7,690 cfs on June 7, 1963 at 8 p.m.

5.80E cfs on September 17, 18 and 19, 1961

NOTES

I - Interpolated.

Stage discharge relation is extrapolated above 1,690 cfs and below 129 cfs.

Accuracy of records: fair.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.
 Discharges based on stage discharge relation established with water levels at Station No. 092711.

DE PONTOIS

2.8 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092708

DRAINAGE AREA - 6750 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	14,100E	11,200	14,900	12,700	16,200	11,800E
2	--	--	--	--	--	--	14,300	11,400	14,600	12,900	15,900	11,700
3	--	--	--	--	--	--	14,800	11,500	14,400	13,200	15,700	11,400
4	--	--	--	--	--	--	15,000	11,500	14,200	13,400	15,500	11,300
5	--	--	--	--	--	--	15,200E	11,600	13,900	13,700	15,400	11,000
6	--	--	--	--	--	--	15,400*	11,600	13,800	14,200	15,300	10,800
7	--	--	--	--	--	--	15,500C	11,700	13,800	15,300	15,100	10,600
8	--	--	--	--	--	--	15,500	11,700	13,500	16,400	15,100	10,400
9	--	--	--	--	--	--	15,500	11,700	13,200	17,400	15,100	10,200
10	--	--	--	--	--	--	15,500	11,700	13,100	17,400	15,000	10,000
11	--	--	--	--	--	--	15,300	11,700	12,900	17,000	14,800	9,850
12	--	--	--	--	--	--	15,200	12,000	12,800	17,800	15,000B	9,700
13	--	--	--	--	--	--	15,100	12,200	12,600	18,000	14,000	9,600
14	--	--	--	--	--	--	15,000	12,300	12,400	18,200	13,700	9,450
15	--	--	--	--	--	--	14,700	12,700	12,200	18,200	13,500	9,380
16	--	--	--	--	--	--	14,400	13,100	12,200	18,200	13,400	9,200
17	--	--	--	--	--	--	14,000	13,500	12,300	18,200	13,400	9,050
18	--	--	--	--	--	--	13,800	13,900	12,300*	18,200	13,300	8,980
19	--	--	--	--	--	--	13,400	14,200*	12,200	18,200	13,200	8,800
20	--	--	--	--	--	--	13,200	14,200	12,300	18,100	13,100	8,700
21	--	--	--	--	--	--	13,000	14,500	12,400	18,000	13,000E	8,630
22	--	--	--	--	--	--	12,700	14,800	12,300	18,000	13,000	8,500
23	--	--	--	--	--	--	12,400	14,900	12,200	17,800	12,900	8,400
24	--	--	--	--	--	--	12,200	15,200	12,400	17,700	12,800	8,250
25	--	--	--	--	--	--	12,000	15,400	12,400	17,500	12,800	8,170
26	--	--	--	--	--	--	11,800	15,700*	12,600	17,400	12,700	8,000
27	--	--	--	--	--	--	11,600	15,500	12,600	17,100	12,600	7,920
28	--	--	--	--	--	--	11,500C	15,500	12,700	16,800	12,500	7,800
29	--	--	--	--	--	--	11,300*	15,400	12,700	16,600	12,300	7,700
30	--	--	--	--	--	--	11,200	15,200	12,700	16,600	12,000	7,600
31	--	--	--	--	--	--	11,300	15,100	--	16,300	--	7,500
MEAN	--	--	--	--	--	--	13,700E	13,300	13,000	16,700	13,900E	9,370E
MAX.	--	--	--	--	--	--	15,500C	15,700*	14,900	18,200	16,200	11,800E
MIN.	--	--	--	--	--	--	11,200	11,200	12,200	12,700	12,000E	7,500E

FOR THE YEAR 1960

MEAN

MAXIMUM

15,700 cfs on August 26

MAXIMUM INSTANTANEOUS

MINIMUM

7,500E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 12.

C - By comparison with De Pontois River, 1.6 miles downstream from the Sakami River and De Pontois River at 1.51 miles upstream from the Sakami River, July 7 to 28.

E - Estimated July 1 to 5 and from November 21.

Stage discharge relation is extrapolated above 18,600 cfs and below 6,340 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - The flow from this drainage basin is divided between De Pontois and Sakami Rivers.

DE PONTOIS

2.8 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092708

DRAINAGE AREA - 6750 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	7,500E	5,020E	3,900E	3,190E	6,200E	18,000E	10,900	8,200	7,510	8,140	11,000	10,700E
2	7,380	4,990	3,870	3,180	6,600	17,700E	11,000	8,080	7,460	8,250	10,400	10,700
3	7,200	4,940*	3,840	3,170	7,200	17,000	10,900	8,080	7,350	8,430	10,700	10,600
4	7,100	4,890	3,820	3,160	7,700	16,800	10,900	7,940*	7,210	8,550	10,700	10,500
5	7,000	4,820	3,790	3,150	8,200	16,600	10,900	7,850	7,160	8,730	10,700	10,200
6	6,900	4,800	3,750	3,140	8,800	16,300	10,900	7,790	7,020	9,030	10,700	9,900
7	6,800	4,750	3,720	3,140	9,600	15,700	11,000	7,680	7,050	9,330	10,800	9,800
8	6,780	4,700	3,700	3,140	10,500	15,400	11,000	7,490	7,020	9,520	10,800	9,600
9	6,680	4,650	3,690	3,140	10,900B	15,100	11,000	7,380	6,940	9,520	10,900E	9,400
10	6,600	4,600	3,620	3,150	11,400	14,800	11,000	7,400	6,780	9,520	11,000	9,200
11	6,550	4,590	3,600	3,180	12,100	14,500	11,000	7,320	6,700	9,680	11,000B	9,100
12	6,400	4,560	3,590	3,200	13,100	14,300*	11,100	7,270	6,650	10,100	11,000	9,000
13	6,380	4,500	3,590	3,230	14,000	13,800	11,000	7,130	6,570	10,300	11,000	8,850
14	6,250	4,450	3,580	3,290	14,900	13,400	10,900	6,940	6,600	10,400	11,000	8,750
15	6,220	4,400	3,550	3,320	15,500	12,900	10,500	7,000	6,550	10,300	11,000	8,600
16	6,200	4,390	3,500	3,390	16,100	12,800	10,100I	6,940	6,500	10,300	11,000	8,400
17	6,170	4,350	3,490	3,420	17,000	12,600	9,610I	7,000	6,500	10,400	11,000	8,250
18	6,050	4,300	3,450	3,500	17,900	12,300	9,900I	7,080	6,370	10,500	11,000	8,100
19	6,000	4,250	3,430	3,550	18,500	12,100	10,100I	7,100	6,320*	10,400	11,000	8,000
20	5,950	4,200	3,410	3,700	19,000	11,900	9,740I	7,130	6,630	10,400	11,000	7,990
21	5,850	4,190	3,390	3,750	19,900	12,000	9,680I	7,240	6,840	10,500	11,000	7,800
22	5,800	4,160	3,360	3,900	20,500	11,800	9,520I	7,320	6,860	10,500	11,000	7,700
23	5,750	4,100	3,340	4,150	21,000	11,800	9,460*	7,460	6,940	10,900	11,000	7,590
24	5,680	4,050	3,310	4,270	21,000	11,700	9,370I	7,630	7,020	11,000	11,000	7,450
25	5,600	4,020	3,300	4,450	20,800	11,500	9,460I	7,710	7,080	11,100	11,000	7,390
26	5,540	4,000	3,290	4,750	20,700	11,300*	9,520I	7,740	7,460	11,100	10,900	7,250
27	5,400	3,990	3,280	5,000	20,100	11,200	9,370I	7,650	7,790	11,200	10,900	7,150
28	5,350	3,970	3,240	5,250	19,900	11,200	9,660I	7,650	7,880	11,200	10,800	7,000
29	5,220	--	3,220	5,600	19,400	11,100	8,820I	7,630	8,020	11,100	10,800	6,900
30	5,190	--	3,210	5,900	19,000	11,100	8,670	7,610	8,110	11,100	10,800	6,800
31	5,090	--	3,200	--	18,500	--	8,400	7,630	--	11,000	--	6,790
MFAN	6,210E	4,450E	3,520E	3,750E	15,000E	13,600	10,200	7,490	7,030	10,100	10,900E	8,560E
MAX.	7,500E	5,020E	3,900E	5,900E	21,000E	18,000E	11,100	8,200	8,110	11,200	11,000	10,700E
MIN.	5,090E	3,970E	3,200E	3,140E	6,200E	11,100	8,400	6,940	6,320*	8,140	10,700	6,790E
M.F.C.	.736	.528	.417	.444	1.783	1.616	1.206	.888	.833	1.195	1.294	1.015

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN 8,430 cfs

MAXIMUM 21,000E cfs on May 23 and 24

MAXIMUM INSTANTANEOUS

MINIMUM 3,140E cfs, April 6 to 9

MINIMUM INSTANTANEOUS

8,430 cfs

21,000E cfs on May 23 and 24, 1961

3,140E cfs, April 6 to 9, 1961

NOTES

* - Discharge measurement.

B - Ice effect to May 9 and from November 11.

I - Interpolated.

E - Estimated to June 2 and from November 9.

Stage discharge relation is extrapolated above 18,600 cfs and below 6,340 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - The flow from this drainage basin is divided between De Pontois and Sakami Rivers.

DE PONTOIS

2.8 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092708

DRAINAGE AREA - 6750 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	6,700E	4,590E	3,380E	2,790E	3,100E	26,900E	12,800	12,600C	9,930	12,800	10,600E	8,190E
2	6,600	4,560	3,350	2,790	3,300	26,500	12,700	12,600	10,000	12,500	10,600	8,170
3	6,550	4,500	3,310	2,780*	3,500	26,000	12,300	12,600	10,200	12,500	10,600	8,110
4	6,400	4,420*	3,300	2,770	3,850	25,700	12,000	12,700	10,400	12,500	10,600	8,030
5	6,350	4,390	3,260*	2,760	4,400	25,100	12,100	12,700	10,600	12,500	10,600	7,950
6	6,230	4,370	3,240	2,750	5,700	25,000	11,500	12,700	10,800	12,500	10,600	7,900
7	6,180	4,290	3,220	2,740	7,500	24,800	11,200	12,700	10,900	12,400	10,600	7,830
8	6,000	4,220	3,200	2,730	9,000	24,000E	11,100	12,600	10,700*	12,100	10,600	7,800
9	5,940	4,200	3,160	2,730	10,400	23,300	10,800	12,500C	10,500	11,700	10,600	7,760
10	5,850	4,170	3,140	2,720	11,900	23,000I	10,800	12,400	10,900	11,500	10,600	7,690
11	5,800	4,100	3,110	2,710	13,000	22,600I	10,800	11,700	11,200	11,400	10,500B	7,620
12	5,700	4,050	3,100	2,700	15,000	22,000I	10,800	11,400	11,800	10,800	10,500	7,600
13	5,640	4,000	3,090	2,700	16,400B	21,300I	10,800	11,100	11,900	10,800	10,400	7,530
14	5,590	3,950	3,050	2,700	18,000	20,700I	10,700	11,000	12,200	10,800	10,200	7,470
15	5,490	3,900	3,010	2,700	19,200	20,000I	10,700	10,900	12,200	10,700	10,000	7,400
16	5,400	3,890	3,000	2,700	20,800	19,600I	10,700	10,700I	12,300	10,700	9,900	7,230
17	5,380	3,820	3,000	2,700	22,000	19,000I	10,600	10,700I	12,500	10,600	9,700	7,170
18	5,240	3,780	2,990	2,700	23,100	18,600*	10,800	10,600I	12,500	10,600	9,500	7,000
19	5,200	3,730	2,980	2,700	24,200	17,600	10,600	10,500I	12,600	10,700	9,300	6,900
20	5,190	3,700	2,950	2,700	25,100	16,900	10,500	10,400I	12,700I	10,700	9,100	6,800
21	5,100	3,680	2,930	2,700	26,100	15,800	10,400	10,400I	12,800I	10,700	9,000	6,700
22	5,050	3,640	2,920	2,700	27,000	15,900	10,400	10,300I	12,900I	10,700	8,800	6,570
23	5,000	3,600	2,900	2,710	27,900	15,500	10,900	10,300I	13,000I	10,700	8,800	6,400
24	4,980	3,570	2,900	2,730	28,100	14,900	11,100	10,200I	13,100I	10,700	8,650	6,270
25	4,950	3,540	2,890	2,760	28,400	14,500	11,700C	10,200I	13,100I	10,800	8,600	6,120
26	4,900	3,500	2,880	2,790	28,200	14,200	11,800	10,200I	13,100I	11,000	8,570	6,000
27	4,830	3,450	2,860	2,820	28,000	13,900	12,000	10,100I	13,100I	11,000	8,450	5,900
28	4,790	3,410	2,850	2,880	27,900	13,500	12,200	11,000	13,000I	10,900	8,370	5,690
29	4,750	--	2,840	2,950	27,800	13,300	12,300	10,000	12,900I	10,700	8,230	5,580
30	4,650	--	2,820	3,000	27,300	13,000	12,400	9,960	12,800I	10,700	8,200	5,420
31	4,600	--	2,800	--	27,000	--	12,500	9,870	--	10,600E	--	5,230
MEAN	5,520E	3,970E	3,050E	2,750E	18,200E	19,800E	11,400E	11,200E	11,900	11,300	9,690E	7,030E
MAX.	6,700E	4,590E	3,380E	3,000E	28,400E	26,900E	12,800	12,700C	13,100I	12,800	10,600E	8,190E
MIN.	4,600E	3,410E	2,800E	2,700E	3,100E	13,000	10,400	9,870	9,930	10,600	8,200E	5,230E
M.F.C.	.570	.410	.314	.284	1.878	2.044	1.174	1.159	1.229	1.165	1.002	.727

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

9,670 cfs

9,050 cfs

MAXIMUM

28,400E cfs on May 25

28,400E cfs on May 25, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

2,700E cfs, April 12 to 22

2,700E cfs, April 12 to 22, 1962

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 13 and from November 11.

I - Interpolated.

C - By comparison with De Pontois River, 1.6 miles downstream from Sakami River, July 25 to August 9.

E - Estimated to June 8 and from October 31.

Stage discharge relation is extrapolated above 18,600 cfs and below 6,340 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - The flow from this drainage basin is divided between De Pontois and Sakami Rivers.

DE PONTOIS

2.8 MI. FROM THE GRANDE RIVIERE

STATION NUMBER 092708

DRAINAGE AREA - 6750 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,190E	3,740*	2,990	2,580	6,700	25,500	14,600	12,700	8,940	8,010	8,040	10,300B
2	5,100	3,720	2,960	2,570	7,800	26,000	14,200	12,800	8,970	8,010	8,040	10,400E
3	5,020	3,700	2,940	2,570	8,900	26,800	13,500	12,800	8,700	8,010	7,750	10,500
4	5,000	3,690	2,920	2,580	9,700	27,400	13,500	12,800	8,700	8,150	7,750	10,600
5	4,980	3,640	2,900*	2,580	10,200	27,900	13,100	12,900C	8,730	8,450	7,750	10,700
6	4,950	3,600	2,880	2,580	11,000	28,300	13,100	13,200	8,730	8,750	7,750	10,800
7	4,860	3,580	2,860	2,590	11,400	28,600	12,700	13,400	8,580	8,900	7,750	10,800
8	4,800	3,550	2,840	2,600	11,600	28,400	12,700	13,700	8,560	8,900	7,750	10,800
9	4,750	3,520	2,820	2,600	12,000	27,800	12,700I	13,800	8,460	8,900	7,750	10,700
10	4,700	3,500	2,800	2,620	12,300B	27,800	12,600I	13,800	8,460	8,900	7,750	10,600
11	4,600	3,480	2,790	2,620	12,300	27,400	12,500I	13,700	8,460	8,900	7,750	10,500
12	4,550	3,430	2,780	2,630	12,400	26,800	12,400I	13,500	8,200	9,210	7,750	10,200
13	4,500	3,400	2,770	2,640	12,200	26,200	12,300I	13,100	8,170	9,210	7,750	10,000
14	4,450	3,370	2,750	2,660	12,300	25,400	12,200I	12,700	8,170	9,210	7,570	9,830
15	4,400	3,320	2,720	2,680	12,700	24,400	12,200I	12,400	8,200	9,210	7,040B	9,600
16	4,380	3,300	2,710	2,710	12,600	23,400	12,100I	12,000	8,170	9,210	6,850	9,400
17	4,360	3,280	2,700	2,800	12,900	22,800	12,100I	11,800	8,170	9,210	6,950	9,200
18	4,320	3,260	2,690	2,920	14,400	21,900	12,000I	11,500	8,170	9,210	7,030	9,100
19	4,270	3,240	2,690	3,050	15,500	21,000	12,000I	11,200	8,170	8,930	7,030	8,900
20	4,220	3,200	2,680	3,150	16,700	20,300	12,000I	10,900	8,140	8,900	7,300	8,750
21	4,200	3,190	2,660	3,280	17,000	19,600	12,000I	10,700	8,140	8,900	7,600	8,550
22	4,150	3,170	2,650	3,360	18,200	18,800	12,000I	10,500	8,140	8,900	8,000	8,400
23	4,100	3,150	2,640	3,420	18,700I	18,600	12,000I	10,200	8,140	8,900	8,450E	8,200
24	4,050	3,120	2,630	3,580	19,400I	17,800	12,000*	9,900C	8,140	8,900	8,900	7,980
25	4,000	3,100	2,620	3,750	20,000I	17,200	12,200	9,600	8,140	8,900	9,200B	7,780
26	3,950	3,090	2,610	3,970	20,900I	16,700	11,800	9,430	8,140	8,600	9,430	7,550
27	3,900	3,050	2,600	4,250	21,300I	16,600	12,000	9,460	8,140	8,600	9,780	7,400
28	3,860	3,010	2,590*	4,630	22,100I	15,800	11,900	9,150	8,140	8,600	10,000	7,200
29	3,820	--	2,580	5,250	23,000I	15,500	12,000	9,150	8,140	8,300	10,100	7,000
30	3,800	--	2,580	5,900	24,000I	14,700	12,400	8,910	8,060	8,010	10,200	6,800
31	3,790E	--	2,580	--	25,000I	--	12,700	8,910	--	8,040	--	6,600
MEAN	4,420E	3,370	2,740	3,170	15,000	22,800	12,500	11,600E	8,340	8,740	8,090E	9,200E
MAX.	5,190E	3,740*	2,990	5,900	25,000I	28,600	14,600	13,800C	8,970	9,210	10,200E	10,800E
MIN.	3,790E	3,010	2,580	2,570	6,700	14,700	11,800	8,910	8,060	8,010	6,850	6,600E
M.F.C.	.480	.366	.297	.344	1.630	2.482	1.358	1.264	.906	.949	.879	.999

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN 9,210 cfs

MAXIMUM 28,600 cfs on June 7

MAXIMUM INSTANTANEOUS 29,000 cfs on June 7 at 3 p.m.

MINIMUM 2,570 cfs on April 2 and 3

9,100 cfs

28,600 cfs on June 7, 1963

29,000 cfs on June 7, 1963 at 3 p.m.

2,570 cfs on April 2 and 3, 1963

NOTES

* - Discharge measurement.

B - Ice effect-to May 10, November 15 to 25, and from December 1.

I - Interpolated.

C - By comparison with De Pontois River, 1.6 miles downstream from Sakami River, August 5 to 24.

E - Estimated to January 31 and from November 23.

Stage discharge relation is extrapolated above 31,700 cfs and below 6,310 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

** - The flow from this drainage basin is divided between De Pontois and Sakami Rivers.

DE PONTOIS

1.6 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092711

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	9,260	7,750	9,610	8,810	9,850I	8,100E
2	--	--	--	--	--	--	9,160	7,760	9,480	8,950	9,800I	8,050
3	--	--	--	--	--	--	9,080	7,750	9,470	9,000	9,750I	8,000
4	--	--	--	--	--	--	9,160	7,850	9,420	9,040	9,720	7,900
5	--	--	--	--	--	--	9,180	7,930	9,370*	9,170	9,690	7,850
6	--	--	--	--	--	--	9,290	7,990	9,330	9,390	9,610	7,800
7	--	--	--	--	--	--	9,430*	8,050	9,250	9,630	9,570	7,700
8	--	--	--	--	--	--	9,500	8,060	9,110	9,840	9,570	7,600
9	--	--	--	--	--	--	9,480	8,120	9,050	10,200	9,520	7,550
10	--	--	--	--	--	--	9,500	8,170	9,030	10,400	9,400B	7,400
11	--	--	--	--	--	--	9,500	8,230	8,990	10,500	9,000	7,350
12	--	--	--	--	--	--	9,400	8,330	8,890	10,700	8,800	7,200
13	--	--	--	--	--	--	9,340	8,490	8,820	10,700	8,600	7,100
14	--	--	--	--	--	--	9,290	8,570	8,750	10,800	8,550	7,000
15	--	--	--	--	--	--	9,270	8,660	8,680	10,800	8,550	6,950
16	--	--	--	--	--	--	9,160	8,820	8,660*	10,800	8,550	6,850
17	--	--	--	--	--	--	8,990	9,000	8,630	10,800	8,600	6,800
18	--	--	--	--	--	--	8,860	9,170	8,530	10,700	8,600	6,700
19	--	--	--	--	--	--	8,730	9,270	8,480	10,700	8,550	6,600
20	--	--	--	--	--	10,600*	8,640	9,390*	8,490	10,700	8,500	6,500
21	--	--	--	--	--	10,400	8,580	9,480	8,490	10,600	8,500E	6,400
22	--	--	--	--	--	10,300	8,490	9,640	8,490	10,500	8,450	6,350
23	--	--	--	--	--	10,200	8,360	9,750	8,430	10,400	8,400	6,250
24	--	--	--	--	--	10,000	8,280	9,860	8,430	10,400	8,350	6,150
25	--	--	--	--	--	9,840	8,190	9,920	8,520	10,400	8,300	6,100
26	--	--	--	--	--	9,680	8,140	10,000*	8,500	10,400	8,300	6,050
27	--	--	--	--	--	9,670	8,040	10,000	8,500	10,300	8,250	6,000
28	--	--	--	--	--	9,510	7,890	9,920	8,550*	10,200	8,200	5,900
29	--	--	--	--	--	9,400	7,790*	9,880	8,590	10,100	8,200	5,800
30	--	--	--	--	--	9,340	7,830	9,790	8,710	10,100I	8,150	5,750
31	--	--	--	--	--	--	7,750	9,690	--	10,000I	--	5,700
MEAN	--	--	--	--	--	--	8,820	8,880	8,840	10,200	8,860E	6,890E
MAX.	--	--	--	--	--	--	9,500	10,000*	9,610	10,800	9,850I	8,100E
MIN.	--	--	--	--	--	--	7,750	7,750	8,430	8,810	8,150E	5,700E

FOR THE YEAR 1960

MEAN

MAXIMUM

10,800 cfs, October 14 to 17

MAXIMUM INSTANTANEOUS

10,900 cfs on October 15 at 5 p.m.

MINIMUM

5,700E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect from November 10.

I - Interpolated.

E - Estimated from November 21.

Stage discharge relation is extrapolated above 10,700 cfs and below 4,870 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

DE PONTOIS

1.6 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092711

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,500E	3,850E	3,000E	2,540E	4,100E	10,900E	7,950C	6,080	5,890C	5,610	7,800	6,900E
2	5,400	3,800*	2,980	2,520	4,250	10,800E	7,940	6,030*	5,790	5,730	7,820	6,850
3	5,380	3,760	2,960	2,510	4,500	10,800	7,900	5,950	5,700	5,860	7,840	6,800
4	5,300	3,740	2,930	2,500	4,700	10,700	7,900	5,940	5,600	5,980	7,890	6,750
5	5,200	3,700	2,920	2,500	5,000	10,500	7,820	5,920	5,500	6,060	7,900	6,700
6	5,180	3,670	2,900	2,500	5,200	10,400*	7,810	5,930	5,410	6,330	7,810	6,650
7	5,070	3,650	2,890	2,490	5,400	10,200	7,800	5,960	5,380	6,460	7,980	6,600
8	5,000	3,600	2,860	2,490	5,600	9,970	7,800	5,840	5,220	6,560	7,900	6,550
9	4,970	3,530	2,840	2,480	5,850	9,890	7,800	5,780	5,190	6,590	8,000	6,500
10	4,900	3,530	2,830	2,480	6,100B	9,600	7,800	5,730	5,090	6,760	7,900B	6,410
11	4,850	3,500	2,810	2,500	6,400	9,520	7,790	5,680	5,010	7,000	7,810	6,380
12	4,800	3,480	2,800	2,510	6,700	9,420	7,780	5,640	5,000	7,150	7,200	6,300
13	4,700	3,450	2,790	2,500	7,100	9,220*	7,700	5,590	4,900	7,130	7,390	6,200
14	4,650	3,420	2,780	2,550	7,400	9,080	7,640C	5,690	4,880	7,130	7,400	6,190
15	4,600	3,400	2,760	2,600	7,600	8,910	7,640	5,690	4,800	7,190	7,400	6,100
16	4,570	3,360	2,750	2,610	7,900	8,810	7,510	5,580	4,810	7,210	7,400	6,000
17	4,500	3,330	2,730	2,640	8,200	8,750	7,440	5,610	4,840	7,460	7,200	5,950
18	4,450	3,300	2,700	2,700	8,400	8,690	7,400	5,620	4,900C	7,590	7,150	5,900
19	4,400	3,260	2,690	2,750	8,800	8,730	7,300	5,680	4,910*	7,580	7,190	5,800
20	4,300	3,240	2,670	2,800	9,000	8,630	7,170	5,760	4,920I	7,530	7,210E	5,750
21	4,260	3,220	2,650	2,870	9,400	8,550	7,060	5,800I	4,840I	7,530	7,200	5,650
22	4,220	3,200	2,620	2,950	9,800	8,340	6,950*	5,840I	4,900I	7,650	7,200	5,600
23	4,200	3,180	2,610	3,070	10,000	8,300*	6,890	5,900I	4,990I	7,780	7,200	5,550
24	4,150	3,160	2,600	3,160	10,500	8,240C	6,870	5,990	5,000I	7,810	7,190	5,500
25	4,100	3,130	2,600	3,250	10,600	8,200	6,780	6,020	5,050I	7,840	7,190	5,420
26	4,050	3,110	2,590	3,400	11,000	8,190	6,640	6,020	5,100I	7,850	7,170	5,380
27	4,000	3,100	2,580	3,500	11,000	8,010	6,560	6,020	5,150	7,880	7,040	5,310
28	3,990	3,050	2,550	3,600	11,000	8,000	6,390	6,020	5,260	7,880	7,020	5,250
29	3,950	--	2,540	3,800	11,000	8,000	6,280	6,020	5,330	7,830	7,000	5,200
30	3,900	--	2,530	3,900	11,000	7,990	6,250	6,010	5,420	7,800	6,990	5,150
31	3,860	--	2,520	--	11,000	--	6,200	5,960	--	7,800	--	5,100
MEAN	4,590E	3,420E	2,740E	2,820E	7,890E	9,180E	7,310E	5,850	5,160E	7,110	7,440E	6,010E
MAX.	5,500E	3,850E	3,000E	3,900E	11,000E	10,900E	7,950C	6,080	5,890C	7,880	8,000	6,900E
MIN.	3,860E	3,050E	2,520E	2,480E	4,100E	7,990C	6,200	5,580	4,800C	5,610	6,990E	5,100E
M.F.C.	.790	.588	.471	.485	1.357	1.579	1.259	1.006	.888	1.224	1.279	1.034

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

5,810 cfs

5,810 cfs

MAXIMUM

11,000 cfs, May 26 to 31

11,000E cfs, May 26 to 31, 1961

MAXIMUM INSTANTANEOUS

MINIMUM

2,480E cfs on April 9 and 10

2,480E cfs on April 9 and 10, 1961

MINIMUM INSTANTANEOUS

NOTES

* - Discharge measurement.

B - Ice effect to May 10 and from November 1.

I - Interpolated.

C - By comparison with De Pontois River, 2.8 miles from the Grande Rivière, June 24 to July 14.

E - Estimated to June 2 and from November 20.

Stage discharge relation is extrapolated above 10,700 cfs and below 4,870 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

DE PONTOIS

1.6 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092711

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,000E	3,650	2,800	2,350	2,030	13,000	8,750	8,670	7,590	8,980	7,900E	6,000E
2	4,990	3,600*	2,790	2,340	2,030	12,800	8,570	8,750	7,630	8,900	7,850	6,000
3	4,950	3,550	2,780	2,320*	2,050	12,700	8,580	8,780	7,810	8,780	7,800	5,970
4	4,850	3,520	2,780	2,300	2,200	12,700	8,430	8,830	7,890	8,720	7,750	5,950
5	4,800	3,500	2,770	2,300	2,470	12,600	8,330	8,860	7,940	8,720	7,700	5,900
6	4,780	3,460	2,750*	2,290	2,900	12,600	8,330	8,770	7,990	8,720	7,650	5,830
7	4,700	3,430	2,700	2,280	3,750	12,600	8,210	8,750	8,120*	8,640	7,600	5,800
8	4,650	3,400	2,700	2,250	4,250	12,500	8,050	8,750	8,410	8,540	7,590	5,750
9	4,600	3,360	2,680	2,240	5,000	12,500	7,900	8,770*	8,430	8,350	7,570	5,710
10	4,580	3,330	2,660	2,230	5,600B	12,300	7,890	8,730	8,460	8,340	7,500B	5,700
11	4,500	3,300	2,650	2,220	6,070	12,200	7,840	8,680	8,480	8,340	7,450	5,600
12	4,470	3,290	2,630	2,210	6,400	12,000	7,840	8,540	8,490	8,340	7,430	5,580
13	4,400	3,260	2,610	2,200	6,850	11,900	7,840	8,400	8,490	8,230	7,400	5,500
14	4,390	3,230	2,600	2,190	7,300	11,700	7,840	8,390	8,490	8,150	7,390	5,450
15	4,350	3,200	2,590	2,170	7,700	11,600	7,840	8,340	8,490	7,990	7,370	5,350
16	4,300	3,180	2,580	2,150	8,050	11,400	7,860	8,300	8,490	7,960	7,300	5,230
17	4,260	3,120	2,560	2,140	8,700	11,100	7,850	8,210	8,490	7,960	7,200	5,200
18	4,200	3,100	2,540	2,130	9,750	10,900	7,880	8,100	8,490	7,840E	7,000	5,040
19	4,200	3,090	2,530	2,120	10,800	10,700	7,900	8,050	8,490	7,820	6,980	4,980
20	4,100	3,050	2,510	2,110	11,200	10,500*	7,900	8,000	8,530	7,800	6,850	4,830
21	4,050	3,000	2,500	2,100	11,700	10,400	7,910	7,900	8,590	7,900	6,750	4,650
22	4,000	2,990	2,490	2,090	12,100	10,300	7,880	7,860	8,710	7,980	6,600	4,500
23	3,990	2,970	2,470	2,080	12,500	10,100	7,880	7,860	8,990	8,050	6,500	4,380
24	3,930	2,950	2,460	2,070	12,600	9,840	7,890	7,850	9,030	8,200	6,400	4,230
25	3,900	2,900	2,450	2,050	12,900	9,690	7,880	7,760	8,990	8,300	6,350	4,100
26	3,860	2,890	2,430	2,050	13,100	9,510	7,950	7,740	9,030	8,350	6,250	3,950
27	3,800	2,870	2,410	2,050	13,200	9,370	7,990	7,710	9,050	8,350	6,190	3,840
28	3,780	2,840	2,400	2,040	13,200	9,260	8,160	7,700	9,090	8,300	6,100	3,750
29	3,750	--	2,390	2,030	13,100	9,070	8,360	7,690	9,080	8,200	6,050	3,700
30	3,720	--	2,370	2,030	13,100	8,990	8,520	7,640	8,990	8,100	6,000	3,620
31	3,700E	--	2,360	--	13,000	--	8,580	7,590	--	8,000	--	3,580
MEAN	4,310E	3,220	2,580	2,170	8,250	11,200	8,080	8,260	8,490	8,290E	7,080E	5,020E
MAX.	5,000E	3,650	2,800	2,350	13,200	13,000	8,750	8,860	9,090	8,980	7,900E	6,000E
MIN.	3,700E	2,840	2,360	2,030	2,030	8,990	7,840	7,590	7,590	7,800E	6,000E	3,580E
M.F.C.	.669	.499	.400	.337	1.282	1.745	1.257	1.283	1.320	1.288	1.101	.780

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

6,430 cfs

6,120 cfs

MAXIMUM

13,200 cfs on May 27 and 28

13,200 cfs on May 27 and 28, 1962

MAXIMUM INSTANTANEOUS

13,300 cfs on May 28 at 10 p.m.

13,300 cfs on May 28, 1962 at 10 p.m.

MINIMUM

2,030 cfs, April 29 to May 2

2,030 cfs, April 29 to May 2, 1962

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 10.

E - Estimated to January 31 and from October 18.

Stage discharge relation is extrapolated above 10,700 cfs and below 4,870 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

DE PONTOIS

1.6 MI. DOWNSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092711

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	3,500E	2,580E	2,340	2,120	4,380	13,000	9,390	8,440	6,290	5,700	6,000C	6,400B
2	3,480	2,580	2,330	2,110	4,700	13,000	9,200	8,450	6,260	5,770	6,000	6,580E
3	3,430	2,560	2,320	2,110	5,000	13,200	9,010	8,460	6,140	5,820	6,000	6,600
4	3,380	2,550E	2,310	2,110	5,400	13,300	8,990	8,620	6,140	5,980	6,000	6,650
5	3,280	2,540*	2,310*	2,110	5,750	13,500	8,990	8,580	6,150	6,150	6,000	6,720
6	3,240	2,530	2,310	2,100	6,330	13,700	8,980	8,550	6,170	6,160	6,000	6,800
7	3,180	2,520	2,300	2,100	6,600	13,800	8,900	8,530	6,110	6,210	6,000	6,820
8	3,140	2,510	2,300	2,100	6,760	13,700	8,810*	8,500	6,050	6,230	6,000	6,880
9	3,110	2,500	2,290	2,100	6,830	13,600	8,810	8,400	6,030	6,400	6,000	6,900
10	3,010	2,500	2,280	2,100	7,020B	13,400	8,810	8,330	5,920	6,510	6,000	6,900
11	3,020	2,500	2,280	2,100	7,100	13,400	8,820	8,230	5,980	6,510	6,000	6,900
12	3,000	2,490	2,270	2,100	7,400	13,300	8,760	8,040	5,910	6,570	6,000	6,850
13	2,980	2,480	2,260	2,110	7,600	13,100	8,710	7,890	5,900	6,630	6,000B	6,810
14	2,950	2,470	2,250	2,110	7,760	13,000	8,640	7,850	5,870	6,630	6,000	6,780
15	2,910	2,460	2,240	2,110	7,960	12,700	8,580	7,710	5,830	6,630	6,000	6,650
16	2,890	2,450	2,230	2,120	8,160	12,400	8,580	7,680	5,730	6,630	5,980	6,580
17	2,860	2,450	2,220	2,130	8,590	12,200	8,460	7,600	5,660	6,640	5,850	6,400
18	2,820	2,430	2,210	2,150	9,130	12,000	8,350	7,510	5,760	6,640	5,600	6,250
19	2,800	2,420	2,210	2,190	9,390C	11,700	8,350	7,480	5,670	6,640	5,400	6,100
20	2,780	2,410	2,200	2,270	9,600	11,400	8,450	7,350	5,670	6,460	5,280	5,980
21	2,760	2,410	2,200	2,330	10,200	11,300	8,400	7,240	5,570	6,400	5,280	5,850
22	2,740	2,400	2,200	2,370	10,800	11,000	8,480	7,150	5,560	6,400	5,400	5,750
23	2,720	2,400	2,190	2,390	11,200	11,000	8,390	7,030	5,580	6,380	5,530	5,600
24	2,700	2,400	2,180	2,420	11,500	10,700	8,360	6,910	5,580	6,290	5,650	5,420
25	2,690	2,390	2,180	2,490	11,800	10,500	8,480*	6,790	5,620	6,290	5,780C	5,350
26	2,670	2,380	2,170	2,570	12,000	10,300	8,330	6,680	5,680	6,290	5,900B	5,200
27	2,640	2,370	2,160	2,620	12,200	10,200	8,340	6,570	5,670	6,220	5,980E	5,020
28	2,620	2,360	2,150*	3,000	12,400	10,000	8,360	6,570	5,690	6,170	6,020	4,980
29	2,610	--	2,140	3,490	12,700	9,860	8,380	6,450	5,700	6,020C	6,200	4,900
30	2,600	--	2,130	3,900	12,900	9,640	8,400	6,360	5,700	6,000	6,300	4,800
31	2,580	--	2,120	--	12,900C	--	8,410	6,350	--	6,000	--	4,700E
MEAN	2,940E	2,470	2,230	2,330	8,780E	12,100	8,640	7,620	5,850	6,300	5,870E	6,130E
MAX.	3,500E	2,580E	2,340	3,900	12,900C	13,800	9,390	8,620	6,290	6,640	6,300E	6,900E
MIN.	2,580E	2,360	2,120	2,100	4,380	9,640	8,330	6,350	5,560	5,700	5,280C	4,700E
M.F.C.	.492	.413	.374	.391	1.471	2.033	1.449	1.278	.981	1.056	.984	1.028

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN 5,960 cfs

MAXIMUM 13,800 cfs on June 7

MAXIMUM INSTANTANEOUS 14,000 cfs on June 7 at 8 p.m.

MINIMUM 2,100 cfs, April 6 to 12

MINIMUM INSTANTANEOUS

6,070 cfs

13,800 cfs on June 7, 1963

14,000 cfs on June 7, 1963 at 8 p.m.

2,030 cfs, April 29 to May 2, 1962

NOTES:

* - Discharge measurement.

B - Ice effect to May 10, November 13 to 26, and from December 1.

C - By comparison with De Pontois River, 15.1 miles upstream from the Sakami River, May 19 to 31 and October 29 to November 25.

E - Estimated to February 4 and from November 27.

Stage discharge relation is extrapolated above 10,700 cfs and below 4,870 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

DE PONTOIS

15.1 MI. UPSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092715

DRAINAGE AREA - 4570 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	---	---	---	---	---	---	11,200E	7,760E	11,600	10,900	11,600	8,900E
2	---	---	---	---	---	---	11,300	7,760	11,300	11,000	11,400	8,800
3	---	---	---	---	---	---	11,600	7,830	11,200	11,100	11,400	8,700
4	---	---	---	---	---	---	11,800	8,000	11,000	11,100	11,400	8,600
5	---	---	---	---	---	---	12,100	8,190	11,000	11,100	11,400	8,500
6	---	---	---	---	---	---	12,300E	8,430	10,800	11,300	11,400	8,400
7	---	---	---	---	---	---	12,600*	8,760	10,700*	12,000	11,400	8,200
8	---	---	---	---	---	---	12,300E	9,050	10,500	13,100	11,400	8,100
9	---	---	---	---	---	---	12,100	9,400	10,200	13,900	11,400	8,000
10	---	---	---	---	---	---	11,900	9,700	9,900	14,000	11,400B	8,000
11	---	---	---	---	---	---	11,700	10,100	10,000	14,700	10,500	7,900
12	---	---	---	---	---	---	11,500	10,500	9,850	15,200	9,900	7,800
13	---	---	---	---	---	---	11,200	10,800	9,620	15,300	9,800	7,700
14	---	---	---	---	---	---	10,900	11,200	9,530	15,200	9,800	7,600
15	---	---	---	---	---	---	10,600	11,600	9,480	15,200	9,800	7,400
16	---	---	---	---	---	---	10,300	11,900	9,440*	14,900	9,800	7,400
17	---	---	---	---	---	---	10,000	12,200	9,120	14,500	9,900	7,200
18	---	---	---	---	---	---	9,800	12,600	9,120	14,200	10,000	7,100
19	---	---	---	---	---	---	9,420	12,900E	9,160	14,000	10,000	7,000
20	---	---	---	---	---	---	9,030	13,200*	9,070	14,000	10,000	6,900
21	---	---	---	---	---	---	8,760	13,900	9,160	14,000	9,900	6,800
22	---	---	---	---	---	---	8,420	13,900	9,070	13,900	9,800	6,800
23	---	---	---	---	---	---	8,220	14,000	9,160	13,700	9,700	6,600
24	---	---	---	---	---	---	8,060	13,700	9,300	13,700	9,600E	6,600
25	---	---	---	---	---	---	7,970	13,400	9,530	13,600	9,650	6,500
26	---	---	---	---	---	---	7,900	13,200*	9,900	13,100	9,500	6,400
27	---	---	---	---	---	---	7,820	12,800	10,200	12,800	9,400	6,300
28	---	---	---	---	---	---	7,800E	12,700	10,400	12,500	9,200	6,200
29	---	---	---	---	---	---	7,800*	12,100	10,300	12,200	9,000	6,100
30	---	---	---	---	---	---	7,780E	11,900	10,700	12,000	9,000	6,000
31	---	---	---	---	---	---	7,770	11,900	---	11,900	---	5,900
MEAN	---	---	---	---	---	---	10,100E	11,100E	10,000	13,200	10,300E	7,370E
MAX.	---	---	---	---	---	---	12,600*	14,000	11,600	15,300	11,600	8,900E
MIN.	---	---	---	---	---	---	7,770E	7,760E	9,070	10,900	9,000E	5,900E

FOR THE YEAR 1960

MEAN

MAXIMUM

15,300 cfs on October 13

MAXIMUM INSTANTANEOUS

MINIMUM

5,900E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 10.

E - Estimated March 1 to 6, July 8 to 28, July 30 to August 19 and from November 24.

Stage discharge relation is extrapolated above 33,500 cfs and below 5,240 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

DE PONTOIS

15.1 MI. UPSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092715

DRAINAGE AREA - 4570 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	5,750E	3,580E	2,650E	2,240E	4,900E	15,400E	7,700C	5,690	5,030	6,110	8,140	7,390E
2	5,630	3,500	2,620	2,230	5,200	15,000E	7,700	5,590	4,920	6,270	8,140	7,390
3	5,520	3,510*	2,590	2,230	5,500	14,200	7,680	5,590*	4,920	6,440	8,140	7,310
4	5,460	3,460	2,570	2,200	5,900	13,600	7,650	5,560	4,750	6,580	8,340	7,250
5	5,350	3,420	2,550	2,200	6,200B	13,400	7,640	5,530	4,670	6,760	8,470	7,200
6	5,260	3,380	2,530	2,210	6,600	12,900*	7,620	5,500	4,640	7,050	8,680B	7,190
7	5,160	3,340	2,510	2,210	7,000	12,500	7,610	5,500	4,480	7,270	8,720	7,150
8	5,070	3,300	2,490	2,220	7,400	12,200	7,600	5,380	4,430	7,350	8,330	7,100
9	5,010	3,270	2,480	2,230	7,800	12,000	7,600	5,170	4,450	7,460	8,080	6,980
10	4,950	3,220	2,470	2,250	8,200	11,700	7,600	5,030	4,450	7,690	8,000	6,780
11	4,870	3,180	2,450	2,260	8,600	11,600	7,600	4,940	4,480	7,930	7,820	6,620
12	4,780	3,130	2,420	2,300	9,000	10,800	7,600	4,920	4,380	8,050	7,900	6,500
13	4,720	3,100	2,400	2,320	9,600	10,200	7,600C	4,970	4,350	8,050	8,400	6,390
14	4,660	3,050	2,390	2,350	10,000	9,850	7,600	4,860	4,250	8,010	8,700	6,220
15	4,570	3,010	2,380	2,400	10,500	9,710	7,580	4,830	4,520	8,140	8,410	6,050
16	4,490	2,990	2,370	2,450	11,000	9,480	7,390	4,780	4,200	8,140	8,390	5,990
17	4,420	2,970	2,350	2,500	11,600	9,340	7,160	4,720	4,300	8,180	8,390	5,820
18	4,350	2,930	2,340	2,550	12,200	8,900	7,050	4,780	4,330	8,140	8,220	5,640
19	4,270	2,890	2,330	2,600	12,900	8,810	6,870	4,860	4,350	8,180	7,780	5,580
20	4,200	2,870	2,320	2,700	13,500	8,900	6,720	5,030	4,450	8,180	7,360	5,400
21	4,130	2,840	2,310	2,850	14,200	8,720	6,440*	5,200	4,480	8,260	7,370	5,300
22	4,060	2,820	2,300	3,000	14,900	8,510	6,370	5,290	4,510	8,340	7,620	5,200
23	4,010	2,800	2,300	3,150	15,200	8,300*	6,240	5,350	4,530	8,340	7,620	5,080
24	3,980	2,790	2,290	3,300	16,000	8,000C	6,170	5,320	4,560	8,340	7,590	4,990
25	3,910	2,760	2,280	3,500	16,700	7,900	6,140	5,350	4,610	8,380	7,480E	4,850
26	3,870	2,730	2,280	3,700	17,000	7,800	6,010	5,350	4,640	8,340	7,400	4,780
27	3,830	2,710	2,270	3,950	17,400	7,800	5,940	5,380	4,670	8,380	7,400	4,630
28	3,780	2,680	2,270	4,200	17,300	7,750	5,720	5,230	4,920	8,430	7,400	4,580
29	3,740	--	2,260	4,400	17,100	7,750	5,720	5,260	5,470	8,380	7,450	4,400
30	3,690	--	2,250	4,700	17,000	7,740	5,690	5,120	5,940	8,220	7,450	4,320
31	3,630	--	2,240	--	16,000	--	5,720	5,140	--	8,180	--	4,190
MEAN	4,550E	3,080E	2,400E	2,780E	11,400E	10,400E	6,960E	5,200	4,620	7,790	7,970E	5,940E
MAX.	5,750E	3,580E	2,650E	4,700E	17,400E	15,400E	7,700C	5,690	5,940	8,430	8,720	7,390E
MIN.	3,630E	2,680E	2,240E	2,200E	4,900E	7,740C	5,690	4,720	4,200	6,110	7,360	4,190E
M.F.C.	.745	.504	.392	.455	1.861	1.696	1.139	.851	.757	1.276	1.305	.973

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

6,110 cfs

6,110 cfs

MAXIMUM

17,400E cfs on May 27

17,400E cfs on May 27, 1961

MAXIMUM INSTANTANEOUS

MINIMUM

2,200E cfs on April 4 and 5

2,200E cfs on April 4 and 5, 1961

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 5 and from November 6.

C - By comparison with De Pontois River, 2.8 miles from the Grande Rivière, June 24 to July 13.

E - Estimated to June 2 and from November 25.

Stage discharge relation is extrapolated above 33,500 cfs and below 5,240 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

DE PONTOIS

15.1 MI. UPSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092715

DRAINAGE AREA - 4570 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	4,100E	3,050*	2,550	2,150	2,030	19,800	9,250	10,400	7,500	10,100	7,890	5,680E
2	4,000	3,020	2,530	2,140	2,090	19,800	9,070	10,400	8,050	10,100	7,890	5,660
3	3,950	3,010	2,510	2,130*	2,200	20,100	8,810	10,400	9,120	10,100	7,890	5,650
4	3,900	2,990	2,500	2,120	2,350	20,100	8,470	10,400	9,620	10,100	7,810	5,640
5	3,850	2,970	2,490	2,110	2,600	20,200	8,140	10,400	9,620	10,000	7,730	5,600
6	3,800	2,960	2,480*	2,100	3,400	20,200	8,140	10,400	9,620	9,620	7,890	5,600
7	3,750	2,950	2,470	2,100	4,400	20,300	7,970	10,300	9,620	9,570	7,890	5,500
8	3,700	2,930	2,450	2,090	6,000	20,300	7,690	10,000	9,620*	9,530	7,890	5,450
9	3,650	2,900	2,430	2,090	8,140	19,900	7,730	9,710	9,620	9,160	7,890	5,380
10	3,600	2,880	2,410	2,080	8,850	19,100	7,930	9,480	9,670	9,160	7,890B	5,300
11	3,550	2,870	2,400	2,070	9,250	18,700	8,140	9,300	9,670	8,770	7,800	5,200
12	3,500	2,850	2,390	2,060	10,300B	18,200	8,180	8,990	9,710	8,050	7,700	5,100
13	3,450	2,830	2,370	2,050	11,700	17,600	8,260	8,720*	9,710	7,890	7,600	5,000
14	3,450	2,810	2,360	2,050	12,900	17,100	8,380	8,640	9,760	7,890	7,200	4,900
15	3,400	2,800	2,350	2,040	14,200	16,300	8,510	8,510	9,760	7,890	6,500	4,800
16	3,350	2,780	2,330	2,030	15,600	15,500	8,850	8,340	9,810	7,890	6,350	4,700
17	3,350	2,770	2,320	2,020	17,800	14,600	8,900	8,220	9,810	7,890	6,250	4,600
18	3,350	2,750	2,300	2,010	20,900	14,300	8,640	8,140	9,850	7,890	6,220	4,500
19	3,300	2,730	2,290	2,010	21,200	13,500	8,470	8,140	9,850	7,890	6,200	4,400
20	3,300	2,700	2,280	2,010	21,300	12,800	8,180	8,180	10,100	7,890	6,100	4,300
21	3,250	2,690	2,270	2,010	22,000	12,600	8,140	8,140	10,400	7,930	6,000	4,200
22	3,250	2,680	2,250	2,000	22,300	12,100	8,180	8,100	10,400	8,300	5,880	4,100
23	3,220	2,660	2,240	2,000	22,800	11,800	8,340	8,100	10,700	8,300	5,880	4,000
24	3,210	2,640	2,220	2,000	22,700	11,200	8,380	8,010	10,900	8,550	5,870	3,900
25	3,200	2,620	2,200	2,000	22,300	10,500	8,260	8,010	11,000	9,160	5,840	3,850
26	3,180	2,610	2,190	2,000	22,200	10,400	8,300	7,970	11,000	9,120	5,800	3,790
27	3,150	2,600	2,180	1,990	22,100	9,450	8,770	7,660	11,000	8,720	5,800	3,710
28	3,120	2,580	2,170	1,990	22,000	9,620	9,810	7,460	10,500	8,720	5,750	3,640
29	3,110	--	2,160	1,990	21,400	9,530	10,400	7,460	10,200	8,720	5,700	3,600
30	3,090	--	2,150	2,000	20,900	9,300	10,500	7,500	10,100	8,680	5,700E	3,520
31	3,070E	--	2,150	--	20,300	--	10,400	7,460	--	7,970	--	3,480
MEAN	3,460E	2,810	2,340	2,050	14,100	15,500	8,620	8,800	9,880	8,760	6,830	4,670E
MAX.	4,100E	3,050*	2,550	2,150	22,800	20,300	10,500	10,400	11,000	10,100	7,890	5,680E
MIN.	3,070E	2,580	2,150	1,990	2,030	9,300	7,690	7,460	7,500	7,890	5,700	3,480E
M.F.C.	.470	.382	.318	.278	1.925	2.110	1.173	1.199	1.344	1.192	.929	.635

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

7,340 cfs

6,720 cfs

MAXIMUM

22,800 cfs on May 23

22,800 cfs on May 23, 1962

MAXIMUM INSTANTANEOUS

23,300 cfs on May 24 at 2 a.m.

23,300 cfs on May 24, 1962 at 2 a.m.

MINIMUM

1,990 cfs, April 27 to 29

1,990 cfs, April 27 to 29, 1962

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 12 and from November 10.

E - Estimated to January 31 and from November 30.

Stage discharge relation is extrapolated above 33,500 cfs and below 5,240 cfs.

Accuracy of recyrgs: periods without effect of ice, fair; those with ice effect, poor.

DE PONTOIS

15.1 MI. UPSTREAM FROM THE SAKAMI RIVER

STATION NUMBER 092715

DRAINAGE AREA - 4570 SQ. MI.

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	3,400E	2,180E	1,810	1,680	3,800	23,800	10,600	9,670	5,560	5,320	5,410	5,950B
2	3,350	2,150	1,800	1,680	4,600	24,400	10,600	9,710	5,560	5,320	5,410	6,180E
3	3,300	2,120	1,780	1,680	5,200	25,300	10,100	9,760	5,560	5,470	5,410	6,320
4	3,250	2,110F	1,770	1,680	5,800	25,400	10,100	9,760	5,560	5,690	5,410	6,490
5	3,200	2,100*	1,760*	1,680	6,800	26,300	10,100	9,760	5,530	5,940	5,410	6,600
6	3,140	2,090	1,750	1,670	7,500	26,400	10,100	9,710	5,530	6,270	5,440	6,690
7	3,050	2,070	1,740	1,670	8,000	26,300	10,100	9,710	5,530	6,270	5,440	6,790
8	3,000	2,050	1,730	1,670	8,400	26,100	10,000	9,530	5,630	6,620	5,440	6,790
9	2,960	2,030	1,720	1,670	8,900	25,300	10,000	9,210	5,500	6,620	5,440	6,790
10	2,900	2,020	1,710	1,660	9,200B	24,600	10,000	9,810	5,350	6,650	5,440	6,750
11	2,870	2,010	1,710	1,660	9,250	23,800	10,000	8,300	5,350	6,650	5,440	6,700
12	2,800	2,000	1,700	1,660	9,440	23,000	9,850	8,300	5,350	6,650	5,440B	6,620
13	2,770	1,980	1,700	1,660	9,710	21,500	9,530	8,100	5,350	6,650	5,440	6,580
14	2,700	1,970	1,700	1,660	9,900	21,200	9,530	7,690	5,350	6,650	5,240	6,480
15	2,690	1,960	1,700	1,660	10,500	19,800	9,530	7,460	5,350	6,480	5,090	6,380
16	2,650	1,950	1,700	1,650	11,500	19,100	9,480	7,460	5,380	6,310	5,000	6,270
17	2,600	1,940	1,700	1,660	12,100	18,200	9,030	7,420	5,380	6,010	4,950	6,100
18	2,580	1,930	1,700	1,660	13,100	18,000	9,030	7,420	5,260	5,980	4,900	6,030
19	2,540	1,920	1,700	1,660	13,500	17,300	9,250	7,390	5,090	5,690	4,800	5,900
20	2,500	1,910	1,700	1,670	14,400	16,600	9,480	7,390	5,090	5,690	4,550	5,800
21	2,480	1,900	1,690	1,680	15,500	15,900	9,440	7,160	5,350	5,690	4,580	5,750
22	2,440	1,900	1,690	1,690	17,100	14,800	9,440	6,970	5,380	5,690	4,800	5,600
23	2,400	1,890	1,690	1,700	18,100	14,800	9,250	6,650	5,410	5,690	5,000	5,500
24	2,380	1,870	1,690	1,750	19,400	14,500	8,990*	6,620*	5,410	5,690	5,180	5,400
25	2,340	1,860	1,690	1,800	20,100	13,500	8,640	6,620	5,410	5,690	5,200	5,300
26	2,300	1,850	1,680	2,000	21,700I	12,700	8,600	6,620	5,410	5,690	5,200	5,200
27	2,290	1,840	1,680	2,300	21,200I	12,100	8,640	6,270	5,410	5,690	5,250B	5,100
28	2,250	1,830	1,680	2,600	21,700I	12,100	8,640	6,240	5,410	5,720	5,350E	5,000
29	2,220	--	1,680*	2,900	22,300I	11,500	9,210	5,940	5,410	5,720	5,600	4,950
30	2,200	--	1,680	3,250	22,800I	11,100	9,620	5,630	5,350	5,560	5,800	4,850
31	2,200	--	1,680	--	23,300I	--	9,620	5,590	--	5,410	--	4,800E
MEAN	2,700E	1,980	1,710	1,830	13,000	19,500	9,560	7,870	5,410	5,970	5,240	5,990E
MAX.	3,400E	2,180E	1,810	3,250	23,300I	26,400	10,600	9,810	5,630	6,650	5,800E	6,790E
MIN.	2,200E	1,830	1,680	1,650	3,800	11,100	8,600	5,590	5,090	5,320	4,550	4,800E
M.F.C.	.399	.292	.253	.271	1.927	2.887	1.415	1.163	.799	.883	.774	.886

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (3 Years)

MEAN 6,760 cfs

MAXIMUM 26,400 cfs on June 6

MAXIMUM INSTANTANEOUS 26,500 cfs on June 6 at 6 p.m.

MINIMUM 1,650 cfs on April 16

MINIMUM INSTANTANEOUS

6,740 cfs

26,400 cfs on June 6, 1963

26,500 cfs on June 6, 1963 at 6 p.m.

1,650 cfs on April 16, 1963

NOTES:

* - Discharge measurement.
 B - Ice effect to May 10, November 12 to 27 and from December 1.
 I - Interpolated.
 E - Estimated to February 4 and from November 28.
 Stage discharge relation is extrapolated above 33,500 cfs and below 5,240 cfs.
 Accuracy of records: periods without effect of ice, good; those with ice effect fair.

MASTA CHANNEL

0.5 MI. DOWNSTREAM FROM THE DE PONTOIS RIVER

STATION NUMBER 092710

DRAINAGE AREA - 4920 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	1,240	546	1,570	--	--	--
2	--	--	--	--	--	--	1,160	571	1,480	--	--	--
3	--	--	--	--	--	--	1,190	591	1,470	--	--	--
4	--	--	--	--	--	--	1,260	613	1,480	--	--	--
5	--	--	--	--	--	--	1,300	607	1,440*	--	--	--
6	--	--	--	--	--	--	1,410*	640	--	--	--	--
7	--	--	--	--	--	--	1,450	651	--	--	--	--
8	--	--	--	--	--	--	1,520	674	--	--	--	--
9	--	--	--	--	--	--	1,510	784	--	--	--	--
10	--	--	--	--	--	--	1,470	765	--	--	--	--
11	--	--	--	--	--	--	1,440	752	--	--	--	--
12	--	--	--	--	--	--	1,420	771	--	--	--	--
13	--	--	--	--	--	--	1,360	864	--	--	--	--
14	--	--	--	--	--	--	1,300	936	--	--	--	--
15	--	--	--	--	--	--	1,300	1,000	--	--	--	--
16	--	--	--	--	--	--	1,370	1,060	--	--	--	--
17	--	--	--	--	--	--	1,120	1,160	--	--	--	--
18	--	--	--	--	--	--	1,030	1,250	--	--	--	--
19	--	--	--	--	--	--	951	1,340*	--	--	--	--
20	--	--	--	--	--	2,470*	885	1,500	--	--	--	--
21	--	--	--	--	--	2,280	830	1,630	--	--	--	--
22	--	--	--	--	--	2,100	790	1,760	--	--	--	--
23	--	--	--	--	--	2,000	727	1,780	--	--	--	--
24	--	--	--	--	--	1,830	703	1,780	--	--	--	--
25	--	--	--	--	--	1,720	668	1,820	--	--	--	--
26	--	--	--	--	--	1,600	645	1,870	--	--	--	--
27	--	--	--	--	--	1,520	591	1,870	--	--	--	--
28	--	--	--	--	--	1,460	576*	1,800*	--	--	--	--
29	--	--	--	--	--	1,340	521	1,800	--	--	--	--
30	--	--	--	--	--	1,380	502	1,690	--	--	--	--
31	--	--	--	--	--	--	541	1,570	--	--	--	--
MEAN	--	--	--	--	--	--	1,060	1,180	--	--	--	--
MAX.	--	--	--	--	--	--	1,520	1,870	--	--	--	--
MIN.	--	--	--	--	--	--	502	546	--	--	--	--

FOR THE YEAR 1960

MEAN

MAXIMUM

2,470 cfs on June 20

MAXIMUM INSTANTANEOUS

2,610 cfs at 5.55 p.m. on June 20

MINIMUM

502 cfs on July 30

MINIMUM INSTANTANEOUS

466 cfs at 10 a.m. on July 30

NOTES:

* - Discharge measurement.

Stage discharge relation is extrapolated above 2,600 cfs and below 140 cfs.

Accuracy of records: good.

Commencing on September 6, 1960, the publication of discharges at this Station is continued at Station No. 092710, from stage discharge relation established with water levels at Station No. 092711.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

MASTA CHANNEL

0.5 MI. DOWNSTREAM FROM THE DE PONTOIS RIVER

STATION NUMBER 092710

DRAINAGE AREA - 4920 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	1,050	--	--
2	--	--	--	--	--	--	--	--	--	1,140	--	--
3	--	--	--	--	--	--	--	--	--	1,170	--	--
4	--	--	--	--	--	--	--	--	--	1,200	--	--
5	--	--	--	--	--	--	--	--	--	1,280	--	--
6	--	--	--	--	--	--	--	--	1,390	1,440	--	--
7	--	--	--	--	--	--	--	--	1,340	1,630	--	--
8	--	--	--	--	--	--	--	--	1,240	1,800	--	--
9	--	--	--	--	--	--	--	--	1,200	2,110	--	--
10	--	--	--	--	--	--	--	--	1,190	2,330	--	--
11	--	--	--	--	--	--	--	--	1,160	2,510	--	--
12	--	--	--	--	--	--	--	--	1,100	2,660	--	--
13	--	--	--	--	--	--	--	--	1,060	2,700	--	--
14	--	--	--	--	--	--	--	--	1,010	2,750	--	--
15	--	--	--	--	--	--	--	--	977	2,780	--	--
16	--	--	--	--	--	--	--	--	963*	2,780	--	--
17	--	--	--	--	--	--	--	--	948	2,780	--	--
18	--	--	--	--	--	--	--	--	893	2,730	--	--
19	--	--	--	--	--	--	--	--	867	2,620	--	--
20	--	--	--	--	--	--	--	--	873	2,620	--	--
21	--	--	--	--	--	--	--	--	873	2,540	--	--
22	--	--	--	--	--	--	--	--	873	2,420	--	--
23	--	--	--	--	--	--	--	--	841	2,380	--	--
24	--	--	--	--	--	--	--	--	841	2,330	--	--
25	--	--	--	--	--	--	--	--	887	2,300	--	--
26	--	--	--	--	--	--	--	--	880	2,300	--	--
27	--	--	--	--	--	--	--	--	880	2,220	--	--
28	--	--	--	--	--	--	--	--	907*	2,180	--	--
29	--	--	--	--	--	--	--	--	928	2,020	--	--
30	--	--	--	--	--	--	--	--	991	1,900E	--	--
31	--	--	--	--	--	--	--	--	--	1,780	--	--
MEAN	--	--	--	--	--	--	--	--	--	2,140	--	--
MAX.	--	--	--	--	--	--	--	--	--	2,780	--	--
MIN.	--	--	--	--	--	--	--	--	--	1,050	--	--

FOR THE YEAR 1960

MEAN

MAXIMUM

2,780 cfs on October 15, 16 and 17

MAXIMUM INSTANTANEOUS

2,830 cfs at 5 p.m. on October 16

MINIMUM

841 cfs on September 23 and 24

MINIMUM INSTANTANEOUS

828 cfs at 6 a.m. on September 24

NOTES:

* - Discharge measurement.

E - Estimated on October 30 and 31.

Stage discharge relation is extrapolated above 2,600 cfs and below 140 cfs.

Accuracy of records: fair.

Discharge based on stage-discharge relation established with water levels at Station No. 092711.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

MASTA CHANNEL

0.5 MI. DOWNSTREAM FROM THE DE PONTOIS RIVER

STATION NUMBER 092710

DRAINAGE AREA - 4920 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	3,300 I	680 C	141 *	118 C	87.0	--	--
2	--	--	--	--	--	3,100 I	674	135	104	98.4	--	--
3	--	--	--	--	--	2,810	660	125	96.0	114	--	--
4	--	129 *	--	--	--	2,680	655	123	80.0	128	--	--
5	--	--	--	--	--	2,510	645	120	73.0	138	--	--
6	--	--	--	--	--	2,320	640	122	64.0	180	--	--
7	--	--	--	--	--	2,140 *	630	126	58.0	202	--	--
8	--	--	--	--	--	1,920	615	111	52.0	219	--	--
9	--	--	--	--	--	1,850	600	104	48.0	226	--	--
10	--	--	--	--	--	1,600	590	98.4	46.0	260	--	--
11	--	--	--	--	--	1,540	580	93.7	44.5	315	--	--
12	--	--	--	--	--	1,460	560	89.1	42.0	356	--	--
13	--	--	--	--	--	1,320	545	84.8	38.0	349	--	--
14	--	--	--	--	--	1,220	530	94.8	37.0	349	--	--
15	--	--	--	--	--	1,110	507 C	94.8	36.0	366	--	--
16	--	--	--	--	--	1,050	461	83.7	35.5	372	--	--
17	--	--	--	--	--	1,010	441	87.0	35.0	445	--	--
18	--	--	--	--	--	984	426	88.0	35.5C	490	--	--
19	--	--	--	--	--	1,010	397	93.7	36.0	485	--	--
20	--	--	--	--	--	948	359	102	36.5	469	--	--
21	--	--	--	--	--	907	330 *	110 I	37.0I	469	--	--
22	--	--	--	--	--	797 *	303	118 I	38.0I	511	--	--
23	--	--	--	--	--	780 C	289	125 I	40.0I	556	--	--
24	--	--	--	--	--	750	284	129	42.0I	570	--	--
25	--	--	--	--	--	739	265	134	43.0I	579	--	--
26	--	--	--	--	--	720	235	134	45.0I	584	--	--
27	--	--	--	--	--	710	219	134	49.8	594	--	--
28	--	--	--	--	--	700	190	134	57.2	594	--	--
29	--	--	--	--	--	695	170	134	62.9	574	--	--
30	--	--	--	--	--	690	167	132	70.0	565	--	--
31	--	--	--	--	--	--	158	126	--	565	--	--
MEAN	--	--	--	--	--	1,450 E	445 E	114	53.3E	381	--	--
MAX.	--	--	--	--	--	3,300 I	680 C	141 *	118 C	594	--	--
MIN.	--	--	--	--	--	690 C	158	83.7	35.0C	87.0	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

3,300I cfs on June 1

3,300I cfs on June 1, 1961

35.0C cfs on September 17

35.0C cfs on September 17, 1961

NOTES:

* - Discharge measurement.

I - Interpolated.

C - By comparison with de Pontois River, June 23 to July 15 and September 1 to 18.

Stage discharge relation is extrapolated above 2,600 cfs and below 140 cfs.

Accuracy of records: fair.

Discharge based on stage-discharge relation established with water levels at Station No. 092711.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

MASTA CHANNEL

0.5 MI. DOWNSTREAM FROM THE DE PONTOIS RIVER

STATION NUMBER 092710

DRAINAGE AREA - 4920 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	6,410	1,010	970	490	1,150	--	--
2	--	--	--	--	--	6,110	914	1,010	502	1,110	--	--
3	--	--	--	--	--	5,900	921	1,040	570	1,040	--	--
4	--	--	--	--	--	5,840	841	1,070	599	999	--	--
5	--	--	--	--	--	5,670	791	1,080	619	999	--	--
6	--	--	80.0*	--	--	5,670	791	1,030	639	999	--	--
7	--	--	--	--	--	5,560	737	1,010	698 *	955	--	--
8	--	--	--	--	--	5,530	665	1,010	835	900	--	--
9	--	--	--	--	--	5,470	604	1,030	841	803	--	--
10	--	--	--	--	--	5,120	599	1,010	860	797	--	--
11	--	--	--	--	--	4,840	579	977	867	797	--	--
12	--	--	--	--	--	4,570	579	900	873	797	--	--
13	--	--	--	--	--	4,400	579	828	873	743	--	--
14	--	--	--	--	--	4,050	579	422	873	709	--	--
15	--	--	--	--	--	3,910	579	797	873	639	--	--
16	--	--	--	--	671	3,560	589	779	873	629	--	--
17	--	--	--	--	999	3,120	584	737	873	629	--	--
18	--	--	--	--	1,760	2,960	594	687	873	--	--	--
19	--	--	--	--	2,700	2,730	604	665	873	--	--	--
20	--	--	--	--	3,310	2,490	604	644	893	--	--	--
21	--	--	--	--	3,980	2,350	609	604	928	--	--	--
22	--	--	--	--	4,660	2,290	594	589	991	--	--	--
23	--	--	--	--	5,310	2,090	594	589	1,160	--	--	--
24	--	--	--	--	5,720	1,800	599	584	1,190	--	--	--
25	--	--	--	--	6,540	1,680	594	551	1,160	--	--	--
26	--	--	--	--	6,770	1,530	624	542	1,190	--	--	--
27	--	--	--	--	6,800	1,420	639	533	1,200	--	--	--
28	--	--	--	--	6,900	1,350	715	528	1,230	--	--	--
29	--	--	--	--	6,770	1,210	809	524	1,220	--	--	--
30	--	--	--	--	6,640	1,160	887	507	1,160	--	--	--
31	--	--	--	--	6,570	--	921	490	--	--	--	--
MEAN	--	--	--	--	--	3,690	688	779	894	--	--	--
MAX.	--	--	--	--	--	6,410	1,010	1,080	1,230	--	--	--
MIN.	--	--	--	--	--	1,160	579	490	490	--	--	--

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

6,900 cfs on May 28

7,100 cfs at 10 p.m. on May 28

80.0 cfs on March 6

6,900 cfs on May 28, 1962

7,100 cfs at 10 p.m. on May 28, 1962

35.0C cfs on September 17, 1961

NOTES:

* - Discharge measurement.

Stage discharge relation is extrapolated above 2,600 cfs and below 140 cfs

Accuracy of records: fair.

Discharges based on stage-discharge relation established with water levels at Station No. 092711.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

MASTA CHANNEL

0.5 MI. DOWNSTREAM FROM THE DE PONTOIS RIVER

STATION NUMBER 092710

DRAINAGE AREA - 4920 SQ. MI.**

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	6,440	1,440	847	172	96.0	--	--
2	--	--	--	--	--	6,440	1,300	854	169	103	--	--
3	--	--	--	--	--	7,030	1,180	860	149	108	--	--
4	--	--	--	--	--	7,240	1,160	941	149	128	--	--
5	--	--	--	--	--	7,810	1,160	921	151	151	--	--
6	--	--	--	--	--	8,190	1,150	907	154	153	--	--
7	--	--	--	--	--	8,410	1,110	893	146	160	--	--
8	--	--	--	--	--	8,270	1,050	880	137	163	--	--
9	--	--	--	--	--	7,850	1,050	828	135	192	--	--
10	--	--	--	--	--	7,520	1,050	791	120	210	--	--
11	--	--	--	--	--	7,490	1,060	743	128	210	--	--
12	--	--	--	--	--	7,100	1,020	660	119	221	--	--
13	--	--	--	--	--	6,760	991	599	118	233	--	--
14	--	--	--	--	--	6,410	955	584	115	233	--	--
15	--	--	--	--	--	5,840	921	533	110	233	--	--
16	--	--	--	--	715	5,300	921	520	98.4	233	--	--
17	--	--	--	--	928	4,880	860	494	91.4	235	--	--
18	--	--	--	--	1,260	4,470	803	461	102	235	--	--
19	--	--	--	--	1,400	4,020	803	453	92.5	235	--	--
20	--	--	--	--	1,520	3,580	854	411	92.5	202	--	--
21	--	--	--	--	1,800	3,400	828	379	82.7	192	--	--
22	--	--	--	--	2,200	3,050	867	356	81.7	192	--	--
23	--	--	--	--	2,500	3,010	822	324	83.7	188	--	--
24	--	--	--	--	2,900	2,680	809	295	83.7	172	--	--
25	--	--	--	--	3,400	2,420	867	268	88.0	172	--	--
26	--	--	--	--	3,800	2,260	791	242	93.7	172	--	--
27	--	--	--	--	4,400	2,100	797	221	92.5	161	--	--
28	--	--	--	--	4,800	1,950	809	221	94.8	154	--	--
29	--	--	--	--	5,200	1,830	816	200	96.0	148	I	--
30	--	--	--	--	5,600	1,640	828	184	96.0	141	I	--
31	--	--	--	--	6,000	--	835	182	--	139	I	--
MEAN	--	--	--	--	--	5,180	965	550	115	180	--	--
MAX.	--	--	--	--	--	8,410	1,440	941	172	235	--	--
MIN.	--	--	--	--	--	1,640	791	182	81.7	96.0	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

8,410 cfs on June 7

8,530 cfs at 8 p.m. on June 7

81.7 cfs on September 22

79.6 cfs at 6 a.m. on September 23

8,410 cfs on June 7, 1963

8,530 cfs at 8 p.m. on June 7, 1963

35.0C cfs on September 17, 1961

NOTES:

I - Interpolated.

Stage discharge relation is extrapolated above 2,600 cfs and below 140 cfs.

Accuracy of records: poor.

Discharges based on stage-discharge relation established with water levels at Station No. 092711.

** - The flow from this drainage area is divided between Masta Channel and De Pontois and Sakami Rivers.

FREGATE LAKE

STATION NUMBER 092714

GAUGE - RECORDING

STATION IN OPERATION SINCE 1962

DAILY WATER ELEVATION IN FEET FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	97.97	--	--	--	--
2	--	--	--	--	--	--	--	98.00	--	--	--	--
3	--	--	--	--	--	--	--	98.03	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	97.59	--	--	--	--	--
6	--	--	--	--	--	--	97.47	--	--	--	--	--
7	--	--	--	--	--	--	97.36	--	--	--	--	--
8	--	--	--	--	--	--	97.28	--	--	--	--	--
9	--	--	--	--	--	--	97.23	--	--	--	--	--
10	--	--	--	--	--	--	97.20	--	--	--	--	--
11	--	--	--	--	--	--	97.18	--	--	--	--	--
12	--	--	--	--	--	--	97.18	--	--	--	--	--
13	--	--	--	--	--	--	97.22	--	--	--	--	--
14	--	--	--	--	--	--	97.25	--	--	--	--	--
15	--	--	--	--	--	--	97.27	--	--	--	--	--
16	--	--	--	--	--	--	97.29	--	--	--	--	--
17	--	--	--	--	--	--	97.30	--	--	--	--	--
18	--	--	--	--	--	--	97.32	--	--	--	--	--
19	--	--	--	--	--	--	97.31	--	--	--	--	--
20	--	--	--	--	--	--	97.33	--	--	--	--	--
21	--	--	--	--	--	--	97.34	--	--	--	--	--
22	--	--	--	--	--	--	97.31	--	--	--	--	--
23	--	--	--	--	--	--	97.29	--	--	--	--	--
24	--	--	--	--	--	--	97.29	--	--	--	--	--
25	--	--	--	--	--	--	97.40	--	--	--	--	--
26	--	--	--	--	--	--	97.45	--	--	--	--	--
27	--	--	--	--	--	--	97.47	--	--	--	--	--
28	--	--	--	--	--	--	97.56	97.04	98.12	--	--	--
29	--	--	--	--	--	--	97.69	--	--	--	--	--
30	--	--	--	--	--	--	97.81	--	--	--	--	--
31	--	--	--	--	--	--	97.92	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1962

MEAN

MAXIMUM

98.12 feet on September 28

MAXIMUM INSTANTANEOUS

MINIMUM

97.04 feet on August 28

MINIMUM INSTANTANEOUS

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. H-9-GS-RA, elevation 100.00 feet.

FREGATE LAKE

STATION NUMBER 092714

GAUGE - RECORDING

STATION IN OPERATION SINCE 1962

DAILY WATER ELEVATION IN FEET FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	101.16	--	--	96.09	--	--	--
2	--	--	--	--	--	--	--	--	96.04	--	--	--
3	--	--	--	--	--	--	--	--	96.02	--	--	--
4	--	--	--	--	--	--	--	97.74	95.94	--	--	--
5	--	--	94.10	--	--	--	--	--	95.94	--	--	--
6	--	--	--	--	--	--	--	--	95.94	--	--	--
7	--	--	--	--	--	--	--	--	95.94	--	--	--
8	--	--	--	--	--	--	98.10	--	95.89	--	--	--
9	--	--	--	--	--	--	98.06	--	95.83	--	--	--
10	--	--	--	--	--	--	98.00	--	95.83	--	--	--
11	--	--	--	--	--	--	97.93	--	--	--	--	--
12	--	--	--	--	--	--	97.90	--	--	--	--	--
13	--	--	--	--	--	101.29	97.82	--	--	--	--	--
14	--	--	--	--	--	--	97.82	--	95.68	--	--	--
15	--	--	--	--	--	--	97.82	--	95.65	--	--	--
16	--	--	--	--	--	--	97.75	--	95.58	--	--	--
17	--	--	--	--	--	--	97.73	--	95.58	--	--	--
18	--	--	--	--	--	--	97.71	--	95.58	--	--	--
19	--	--	--	--	--	--	97.63	--	95.52	--	--	--
20	--	--	--	--	--	--	97.64	--	95.48	--	--	--
21	--	--	--	--	--	--	--	--	95.48	--	--	--
22	--	--	--	--	--	--	--	--	95.48	--	--	--
23	--	--	--	--	--	--	--	--	95.46	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	97.64	96.50	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	94.03	--	--	98.88	--	--	--	--	--	--
29	--	--	--	--	--	98.78	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

101.29 feet on June 13

94.03 feet on March 28

101.29 feet on June 13, 1963

94.03 feet on March 28, 1963

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. H-9-GS-RA, elevation 100.00 feet.

GRANDE RIVIERE DE LA BALEINE

8.7 MI. FROM MOUTH

STATION NUMBER 093803

DRAINAGE AREA 16300 SQ. MI.

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1958												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	41,400*	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.
Accuracy of records: good.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

8.7 MI. FROM MOUTH

STATION NUMBER 093803

DRAINAGE AREA 16300 SQ. MI. **

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1959												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	28,200I	36,700	36,900	23,600
2	--	--	--	--	--	--	--	--	28,400I	36,700	36,400	23,500
3	--	--	--	--	--	--	--	--	28,600	36,500	36,100	23,300
4	--	--	--	--	--	--	--	--	28,800	37,000	35,500	23,000
5	--	--	--	--	--	--	--	--	28,800	38,700	34,200	22,800
6	--	--	--	--	--	--	--	--	29,100	38,700	34,800	22,500
7	--	--	--	--	--	--	--	--	38,800	37,900	34,100	22,200
8	--	--	--	--	--	--	--	--	40,500	37,300	33,600	22,000
9	--	--	--	--	--	--	--	--	38,800	36,800	33,200	21,800
10	--	--	--	--	--	--	--	--	36,700	36,400	33,100	21,600
11	--	--	--	--	--	--	--	--	35,300	36,200	33,000	21,500
12	--	--	--	--	--	--	--	--	34,300	36,500	32,200	21,300
13	--	--	--	--	--	--	--	--	34,400	38,100	32,100	21,200
14	--	--	--	--	--	--	--	--	34,400	39,600	31,400	21,100
15	--	--	--	--	--	--	--	--	34,600	40,700	31,000	21,000
16	--	--	--	--	--	--	--	--	34,600	40,600	30,500B	20,900
17	--	--	--	--	--	--	--	--	34,500	40,400	29,300	20,800
18	--	--	--	--	--	--	--	--	34,200	40,000	27,600	20,600
19	--	--	--	--	--	--	--	--	33,800	39,600	27,400	20,400
20	--	--	--	--	--	--	--	--	33,000	39,000	27,200	20,100
21	--	--	--	--	--	--	57,100*	--	33,400	38,600	27,000	19,700
22	--	--	--	--	--	--	--	--	34,000	38,100	26,900	19,400
23	--	--	--	--	--	--	--	--	34,000*	37,800	26,600	19,000
24	--	--	--	--	--	--	--	--	33,400	38,400	26,200	18,600
25	--	--	--	--	--	--	--	--	33,200*	39,200	25,200	18,200
26	--	--	--	--	--	--	--	--	33,100	39,100	24,900	17,800
27	--	--	--	--	--	76,000*	--	--	33,100	38,800	24,500	17,300
28	--	--	--	--	--	--	--	--	34,200	38,100	24,300	17,000
29	--	--	--	--	--	--	--	--	35,800	37,700	24,000	16,900
30	--	--	--	--	--	--	--	--	36,700	37,600	23,800	16,700
31	--	--	--	--	--	--	--	--	--	37,100	--	16,500
MEAN	--	--	--	--	--	--	--	--	33,700	38,200	30,100	20,400
MAX.	--	--	--	--	--	--	--	--	40,500	40,700	36,900	23,600
MIN.	--	--	--	--	--	--	--	--	28,200I	36,200	23,800	16,500

FOR THE YEAR 1959

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

76,000 cfs on June 27

76,000 cfs on June 27, 1959

MAXIMUM INSTANTANEOUS

MINIMUM

16,500 cfs on December 31

16,500 cfs on December 31, 1959

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 16.

Stage discharge relation is extrapolated above 76,100 cfs and below 6,170 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

One discharge measurement was made in 1958.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 129 and 133 (Station No. 3ED-1).

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

8.7 MI. FROM MOUTH

STATION NUMBER 093803

DRAINAGE AREA 16300 SQ. MI. **

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16,000	10,200	7,200	5,140	6,000	39,500I	30,500	32,400	55,400	42,800	39,100	24,000E
2	15,900	10,100*	7,050	5,120	7,000	38,500I	30,700	34,500	54,400	42,500	39,100	23,700
3	15,600	9,930	6,900	5,100	8,000	37,400I	30,200	37,800	54,100	42,100	40,000	23,200
4	15,400	9,840	6,880*	5,090	8,500	36,700I	31,600	37,400	54,000	42,900	40,200	22,900
5	15,100	9,740	6,800	5,080	9,350	36,000I	34,000	35,900	53,900	43,800	39,400	22,400
6	15,000	9,620	6,700	5,070	11,500	35,400I	34,000	34,900	54,100	47,000*	38,500	22,000
7	14,800	9,540	6,560	5,030	12,400	34,800I	33,200	34,200	54,400	46,600	37,500	21,800
8	14,600	9,420	6,500	5,000	13,300	34,100	32,400	33,900	53,500	45,300	36,500	21,200
9	14,300	9,340	6,430	4,990	13,700	34,200	32,100	33,800	52,300	44,600	35,200	21,000
10	14,000	9,250	6,330	4,980	14,200B	34,300	32,300	33,200	51,400	43,900	33,800	20,600
11	13,900	9,150	6,270	4,960	15,400	34,400	31,700	33,200	50,200	43,600	33,000	20,300
12	13,600	9,070	6,170	4,910	16,800	34,500	31,400	33,600	49,000	43,000	31,400	20,000
13	13,400	8,980	6,140	4,880	20,500	34,600	31,000	34,300	48,100	42,300	30,500B	19,800
14	13,100	8,900	6,070	4,880	28,800	34,800	30,800	35,800	47,600	41,500	30,100	19,500
15	12,900	8,790	5,990	4,880	44,000	34,400	30,800	38,400	48,100	41,100	30,100	19,000
16	12,700	8,710	5,930	4,880	54,300	34,200*	34,000	40,500	48,100	40,600	29,900	18,900
17	12,500	8,610	5,900	4,880	58,600	34,200	36,800	40,900	47,900	40,600	29,700	18,600
18	12,400	8,510	5,810	4,890	56,800	34,200	37,000	42,300	48,300	40,700	29,500	18,200
19	12,200	8,420	5,790	4,900	53,000	33,900	36,100	46,200	48,200	41,400	29,100	17,900
20	12,000	8,330	5,700	4,910	52,200	33,600	34,900	47,800	47,000	40,900	28,600E	17,600
21	11,800	8,100	5,680	4,940	52,100	33,100	33,700	48,200	46,300	40,500	28,000	17,300
22	11,600	7,950	5,570	4,960	52,000I	32,500	33,100	48,900	45,900	39,800	27,800	17,000
23	11,500	7,800	5,500	4,980	50,500I	31,900	33,200	49,900	45,200	39,200	27,200	16,700
24	11,300	7,700	5,460	4,990	49,200I	31,400	33,000*	50,700*	44,400	38,500	26,900	16,400
25	11,100	7,650	5,430	5,000*	47,200I	30,900	32,500	51,500	44,400	37,800	26,500	16,000
26	11,000	7,600	5,340	5,000	46,200I	30,200	32,100	52,100	45,100	37,000	26,000	15,900
27	10,800	7,500	5,290	5,000	45,000I	29,800	31,900	53,500	44,600	37,100	25,800	15,600
28	10,600	7,350	5,250*	4,990	43,800I	29,400	31,500	56,900	43,900	37,200	25,000	15,400
29	10,500	7,300	5,210	5,000	42,300I	29,200	31,400	57,500	43,600	39,100	24,900	15,000
30	10,400	--	5,200	5,210	41,400I	29,900	31,200	57,000	43,300	40,400	24,300	14,900
31	10,300	--	5,180	--	40,200I	--	31,900	56,300	--	39,700	--	14,600
MEAN	12,900	8,740	6,010	4,990	32,700	33,700	32,600	42,700	48,900	41,400	31,500E	18,900E
MAX.	16,000	10,200	7,200	5,210	58,600	39,500I	37,000	57,500	55,400	47,000*	40,200	24,000E
MIN.	10,300	7,300	5,180	4,880	6,000	29,200	30,200	32,400	43,300	37,000	24,300E	14,600E
M.F.C.	.490	.332	.228	.189	1.243	1.281	1.239	1.622	1.857	1.573	1.195	.720

FOR THE YEAR 1960

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

26,300 cfs

26,300 cfs

MAXIMUM

58,600 cfs on May 17

76,000 cfs on June 27, 1959

MAXIMUM INSTANTANEOUS

59,000 cfs on May 17 at 11 a.m.

MINIMUM

4,880 cfs, April 13 to 17

4,880 cfs, April 13 to 17, 1960

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 10 and from November 13.

I - Interpolated.

E - Estimated from November 20.

Stage discharge relation is extrapolated above 76,100 cfs and below 6,170 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 133 and 137 (Station No. 3ED-1).

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

8.7 MI. FROM MOUTH

STATION NUMBER 093803

DRAINAGE AREA 16300 SQ. MI. **

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	14,200E	9,470	7,800*	6,000	22,000	25,700	33,700	17,900*	15,200	18,900	21,800B	18,400
2	14,000	9,420	7,760	6,040	25,800*	25,600	33,600	17,800	15,200	20,400	21,500	18,100
3	13,800	9,350	7,700	6,070	27,900*	25,600	33,200	17,500	15,100	21,500	22,000	17,900
4	13,600	9,280	7,600	6,090	28,600*	25,600	32,900	16,900	14,900	22,200	23,900	17,700
5	13,300	9,220	7,500	6,120	28,300*	25,700	32,500	16,400	14,600	22,500	26,000	17,500
6	13,000	9,140	7,400	6,240	28,600*	26,200	31,800	15,700	14,700	23,800	26,800	17,400
7	12,900	9,090	7,300	6,340	31,500*	26,400	31,300	15,400	14,400	25,200	26,000	17,200
8	12,600	8,990	7,260	6,400	34,700	26,300	30,900	15,400	14,400	25,100	24,900	17,000
9	12,400	8,930	7,150	6,430	35,900	26,200	30,500	15,400	14,200	24,600	24,000	16,900
10	12,200	8,820	7,080	6,430	36,600	26,400	30,200	16,400	14,000	24,300	23,200	16,700
11	12,000	8,740	7,010	6,430	35,200	26,700	29,700	18,000	13,800	23,900	22,900	16,500
12	12,000	8,670	6,940	6,460	34,100	26,700	29,100	18,100	13,600	23,700	22,500	16,400
13	11,900	8,610	6,840	6,460	33,800	27,700	28,400	17,300	13,800*	24,100	22,000	16,100
14	11,700	8,530	6,770	6,470	33,200	28,600	27,600	16,700	14,000	24,100	21,800	16,000
15	11,500	8,450	6,700	6,470	32,300	28,800	27,000	16,400	14,000	23,800	21,600	15,700
16	11,400	8,420	6,600	6,560	31,200	28,200	26,300	16,700	14,500	23,300	21,300	15,500
17	11,200	8,360	6,530	6,910	30,200	27,700	25,700	16,700	15,200	22,800	21,000	15,300
18	11,000	8,300	6,470	7,620	29,600	28,300	25,100	16,600	15,300	22,500	20,800	15,000
19	10,900	8,260	6,400	8,690	29,200	29,200	24,600	16,700	15,300	22,600	20,600	14,800
20	10,600	8,200	6,340	10,100B	30,100	35,100*	24,000	16,500	15,600	22,700	20,500	14,600
21	10,500	8,150	6,300	12,200	30,800	36,700	23,400	16,300	16,800	22,800	20,300	14,400
22	10,400	8,080	6,220	19,500	30,400	35,900	22,700	16,000	18,000	22,700	20,100	14,100
23	10,300	8,030	6,140	27,400	29,400	35,100	22,100	15,700	18,700	22,500	20,000	13,900
24	10,000	8,000	6,070	25,800	28,300	34,800	21,500	15,200	18,900	22,500	19,900	13,700
25	9,900E	7,960	5,980	23,100	27,400	34,200	20,900	15,200	19,200	22,700	19,600	13,500
26	9,800*	7,900	5,910*	22,200	26,900	33,500	20,500	15,300	19,100	22,700	19,500	13,300
27	9,650	7,850	5,880	21,400	26,500	33,100	19,900	15,200	19,000	22,900	19,200	13,100
28	9,600	7,820	5,860	21,100	26,500	33,000	19,300	15,500	18,800	22,800	19,000	12,900
29	9,600	--	5,880	21,100	26,400	33,200	18,900	15,500	18,800	22,500	18,800	12,700
30	9,550	--	5,910	21,100	26,200	33,900	18,400	15,300	18,800	22,400	18,500	12,500
31	9,500	--	5,940	--	25,900	--	18,200	15,200	--	22,100	--	12,400
MEAN	11,500E	8,570	6,690	11,600	29,800	29,700	26,300	16,300	15,900	22,900	21,700	15,400
MAX.	14,200E	9,470	7,800*	27,400	36,600	36,700	33,700	18,100	19,200	25,200	26,800	18,400
MIN.	9,500	7,820	5,860	6,000	22,000	25,600	18,200	15,200	13,600	18,900	18,500	12,400
M.F.C.	.633	.474	.369	.643	1.647	1.640	1.452	.900	.881	1.267	1.198	.851

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (2 Years)

MEAN

18,100 cfs

22,200 cfs

MAXIMUM

36,700 cfs on June 21

76,000 cfs on June 27, 1959

MAXIMUM INSTANTANEOUS

36,800 cfs on June 21 at 9 a.m.

MINIMUM

5,860 cfs on March 28

4,880 cfs, April 13 to 17, 1960

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to April 20 and from November 1.

E - Estimated to January 25.

Stage discharge relation is extrapolated above 76,100 cfs and below 6,170 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 137 and 140 (Station No. 3ED-1).

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

8.7 MI. FROM MOUTH

STATION NUMBER 093803

DRAINAGE AREA 16300 SQ. MI. **

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	12,200	7,800	5,990	5,210	5,250E	42,800E	42,300	24,500	15,000	24,400	24,500	18,800
2	12,100	7,650	5,870	5,220	5,400	42,000	42,300	23,900	14,900	24,300	24,000	18,600
3	11,900	7,600	5,780	5,220*	5,600	41,000	41,800	23,600	14,800	24,000	23,900	18,400
4	11,700	7,520	5,760	5,210	5,900	40,000	40,400	22,700	14,700	24,000	23,800	18,300
5	11,500	7,410	5,770	5,200	6,300E	39,200	38,600	22,100	18,100	24,000	23,500	18,200
6	11,400	7,390	5,780	5,190	6,800	38,100	37,000	21,400	22,400	23,900	23,100	18,100
7	11,200	7,280	5,680	5,180	7,450	37,600E	36,200	20,800	21,900	23,600	22,600	17,900
8	10,900	7,190	5,670	5,170	8,300	37,500	37,800	20,200	20,700	23,200	22,400	17,600
9	10,700	7,050	5,670	5,160	9,300	37,400	38,300	19,500	19,800	22,800	21,100	17,400
10	10,600	7,050	5,670	5,150	10,200	37,200	37,500	19,100	19,300	22,500	22,200	17,200
11	10,400	7,000	5,670	5,140	11,000	37,100	36,800	18,500	19,400	22,300	22,200B	16,900
12	10,300	6,950	5,670	5,130	12,600	37,000	36,300	18,000	19,300	22,300	22,000	16,700
13	10,100	6,850	5,670	5,120	15,000	36,600	38,900	17,600*	19,100	22,600	21,700	16,300
14	9,900	6,800	5,670	5,120	19,000	36,500	41,200	17,400	19,500	22,800	21,500	15,700
15	9,800	6,700	5,670	5,130	24,000B	36,700	39,800	17,300	22,400	23,100	21,000	15,300
16	9,700	6,680	5,520	5,140	30,000	36,600	38,200	17,400	23,500	24,100	20,200	15,100
17	9,600	6,600	5,440	5,140	35,000	36,700	36,600	18,100	23,600	26,400	19,900	15,000
18	9,400	6,500	5,400	5,140	42,000	36,900	35,200	18,600	23,800	27,400	19,500	14,900
19	9,300	6,500	5,390	5,150	49,000E	37,000	34,200	18,800	25,600	27,400	19,300	14,800
20	9,200	6,400	5,390	5,160	51,300	36,900	33,300	18,800	26,500	27,000	19,100	14,700
21	9,000	6,390	5,400	5,190	51,300	36,700	32,700	18,400	26,300	27,300	19,100	14,700
22	8,900	6,350	5,390	5,200	50,000	36,400	31,700	18,100	26,100	27,100	19,000	14,500
23	8,800	6,280	5,320	5,150	48,500	36,200	30,700	17,600	25,800	26,700	19,000	14,200E
24	8,600	6,250	5,280	5,150	47,000	36,900	29,800	17,100	25,700	26,400	18,900	14,000
25	8,500	6,180	5,270	5,150	46,800	37,000	29,200	16,900	25,800	26,400	18,800	13,800
26	8,350	6,100*	5,260	5,150	46,800	36,900	28,400	16,500	26,100	26,200	19,000	13,500
27	8,250	6,080	5,250	5,160	47,000	36,700	27,700	16,200	26,000	26,200	19,000	13,200
28	8,100	6,000	5,240	5,170	46,600	39,700	26,800	16,000	25,500	26,400	19,000	13,000
29	8,000*	--	5,220	5,180	46,500	41,500	26,000	15,800	25,000	26,100	19,000	12,700
30	7,900	--	5,210	5,190	44,300	42,200	25,300	15,600	24,600	25,600	18,900	12,400
31	7,800	--	5,200	--	43,800	--	25,200	15,300	--	25,000	--	12,200
MEAN	9,810	6,810	5,520	5,170	28,300E	38,000E	34,700	18,800	22,000	24,900	20,900	15,600E
MAX.	12,200	7,800	5,990	5,220	51,300E	42,800E	42,300	24,500	26,500	27,400	24,500	18,800
MIN.	7,800	6,000	5,200	5,120	5,250E	36,200	25,200	15,300	14,700	22,300	18,800	12,200E
M.F.C.	.508	.352	.286	.267	1.466	1.971	1.799	.972	1.142	1.290	1.083	.809

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (3 Years)

MEAN

19,300 cfs

21,200 cfs

MAXIMUM

51,300E cfs on May 20 and 21

76,000 cfs on June 27, 1959

MAXIMUM INSTANTANEOUS

MINIMUM

5,120 cfs on April 13 and 14

4,880 cfs, April 13 to 17, 1960

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 15 and from November 11.

E - Estimated May 1 to 5, May 19 to June 7 and from December 23.

Stage discharge relation is extrapolated above 76,100 cfs and below 5,390 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Papers Nos. 140 and 143 (Station No. 3ED-1).

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

8.7 MI. FROM MOUTH

STATION NUMBER 093803

DRAINAGE AREA 16300 SQ. MI. **

STATION IN OPERATION SINCE 1959

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11,900E	8,000	6,360	5,070	22,400	48,000	33,400	28,900	24,900	29,600	24,300	20,600
2	11,800	7,950	6,310	5,070	22,400	47,000	33,400	28,900	25,900	28,800	23,800	20,800
3	11,700	7,900	6,280	5,070	23,900	46,800	35,100	29,300	27,400	28,400	23,400	20,800
4	11,500	7,830	6,210	5,070	33,900	46,400	34,100	29,700	27,700	28,100	23,100	20,900B
5	11,400	7,780	6,170	5,070	37,300	45,400	37,700	29,700	27,500	27,400	22,700	21,000
6	11,300	7,720	6,120	5,070	35,900	44,400	31,700	29,500*	26,900	27,200	22,400	21,000
7	11,000	7,650	6,070	5,080	33,300	43,500	30,900	29,300	28,200	27,200	22,400	21,000
8	10,900	7,600	6,000	5,110	31,400	42,800	30,400	30,800	29,500	28,000	22,500	21,000
9	10,800	7,540	5,970	5,160	29,700	42,100	30,200	31,100	29,200	27,800	22,700	20,900
10	10,600	7,490	5,930	5,200	28,200	41,900	29,800	30,500	28,700	27,800	23,100	20,800
11	10,400	7,400	5,900	5,230	27,000	41,600	29,200	29,700	28,500	27,400	23,100	20,600
12	10,300	7,350	5,840	5,260	25,900	41,200	28,600	28,800	28,900	26,900	23,100	20,500
13	10,200	7,270	5,800	5,350	25,700	40,900	28,500	27,900	29,200	26,400	22,500	20,300E
14	10,000	7,200	5,760	5,550	26,200	40,800	30,200	27,300	29,300	26,000	21,600	20,000
15	9,900	7,170	5,700	5,820	26,400	40,700	32,300	27,000	29,200	25,200	20,700	19,900
16	9,750	7,100	5,650	6,150	28,400	40,800	31,100*	26,700	29,400	25,500	20,000	19,600
17	9,600	7,050	5,620	6,290	33,600	40,800	29,800	26,100	28,400	25,500	19,500B	19,400
18	9,430	7,000	5,590	7,070	38,600	41,200	29,000	25,800	28,800	25,500	19,300	19,200
19	9,350	6,930	5,550	7,830	44,200	41,200	29,100	25,500	29,800	25,200	19,300	19,000
20	9,200	6,860	5,510	8,550	49,700	41,000	29,900	26,400	29,800	24,700	19,300	18,800
21	9,000	6,800	5,480	9,100B	52,500	40,800	30,900	27,400	29,400	24,100	18,800	18,500
22	8,950	6,760	5,440	9,500	51,100	40,200	30,500	28,000	29,000	24,100	18,200	18,000
23	8,850	6,700	5,400	10,100	49,300	39,300	29,900	28,200	28,700	25,100	17,800	17,800
24	8,770	6,650	5,370	11,200	48,700	38,500	29,300	27,000	28,600	25,800	17,700	17,600
25	8,630	6,600*	5,310*	12,400	53,100	37,600	28,600	26,900	28,400	25,600	17,800	17,300
26	8,540	6,570	5,270	13,400	54,300	37,000	28,100	26,200	29,800	25,600	18,000	17,100
27	8,430	6,510	5,220	14,500	54,200	36,700	27,300	25,600	32,100	25,500	18,200	16,900
28	8,340E	6,450	5,180	16,900	51,900	35,700	26,700	25,100	31,800	25,400	18,800B	16,600
29	8,250*	--	5,150	20,900	50,400	35,000	26,800	24,900	31,100	25,100	19,500	16,300
30	8,190	--	5,110	21,900	50,000	34,400	28,800	24,600	30,000	25,100	20,400	16,100
31	8,100	--	5,070	--	49,500	--	29,400	24,600	--	24,700	--	15,900
MEAN	9,840E	7,210	5,690	8,470	38,400	41,100	30,200	27,700	28,900	26,300	20,800	19,200E
MAX.	11,900E	8,000	6,360	21,900	54,300	48,000	35,100	31,100	32,100	29,600	24,300	21,000
MIN.	8,100	6,450	5,070	5,070	22,400	34,400	26,700	24,600	24,900	24,100	17,700	15,900E
M.F.C.	.446	.326	.257	.383	1.738	1.864	1.368	1.253	1.307	1.191	.942	.868

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (4 Years)

MEAN

22,100 cfs

21,400 cfs

MAXIMUM

54,300 cfs on May 26

76,000 cfs on June 27, 1959

MAXIMUM INSTANTANEOUS

54,700 cfs on May 27 at 3 a.m.

MINIMUM

5,070 cfs, March 31 to April 6

4,880 cfs, April 13 to 17, 1960

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to April 21, November 17 to 28 and from December 4.

E - Estimated to January 28 and from December 13.

Stage discharge relation is extrapolated above 76,100 cfs and below 5,390 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

Discharges have been revised from those published by the Department of Northern Affairs and National Resources in Water Resources Paper No. 143 (Station No. 3ED-1).

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

12.0 MI. UPSTREAM FROM THE DENYS RIVER

STATION NUMBER 093802

DRAINAGE AREA 14000 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	36,300	31,900	--
2	--	--	--	--	--	--	--	--	--	36,100	31,800	--
3	--	--	--	--	--	--	--	--	--	36,100	32,100	--
4	--	--	--	--	--	--	--	--	--	36,100	32,100	--
5	--	--	--	--	--	--	--	--	47,700*	36,200	31,900	--
6	--	--	--	--	--	--	--	--	47,600	37,900	31,500	--
7	--	--	--	--	--	--	--	--	48,100	38,100	30,400	--
8	--	--	--	--	--	--	--	--	46,900	37,600	29,400	--
9	--	--	--	--	--	--	--	--	45,900	37,200	28,700	--
10	--	--	--	--	--	--	--	--	45,100	36,700	27,600	--
11	--	--	--	--	--	--	--	--	44,100	36,400	27,200	--
12	--	--	--	--	--	--	--	--	43,100	36,200	26,900	--
13	--	--	--	--	--	--	--	--	42,000	35,400	27,000	--
14	--	--	--	--	--	--	--	--	41,400	34,600	27,300	--
15	--	--	--	--	--	--	--	--	41,200	34,200	27,600	--
16	--	--	--	--	--	--	--	--	41,200	33,800	26,700	--
17	--	--	--	--	--	--	--	33,500*	39,600	33,600	26,700	--
18	--	--	--	--	--	--	--	--	39,600	33,500	26,600	--
19	--	--	--	--	--	--	--	--	39,600	33,500	26,300	--
20	--	--	--	--	--	--	--	--	39,600	33,500	26,100	--
21	--	--	--	--	--	--	--	--	39,600	33,400	--	--
22	--	--	--	--	--	--	--	--	39,600	33,000	--	--
23	--	--	--	--	--	--	--	--	39,600	32,300	--	--
24	--	--	--	--	--	--	--	--	37,800	32,000	--	--
25	--	--	--	--	--	--	26,200*	45,700*	37,800	31,300	--	--
26	--	--	--	--	--	--	26,200	--	37,900*	30,700	--	--
27	--	--	--	--	--	--	25,600	--	37,600	30,400	--	--
28	--	--	--	--	--	--	25,300	--	37,500	30,500	--	--
29	--	--	--	--	--	--	--	--	37,000	31,800	--	--
30	--	--	--	--	--	--	--	--	36,700	32,400	--	--
31	--	--	--	--	--	--	--	--	--	32,300	--	--
MEAN	--	--	--	--	--	--	--	--	--	34,300	--	--
MAX.	--	--	--	--	--	--	--	--	--	38,100	--	--
MIN.	--	--	--	--	--	--	--	--	--	30,400	--	--

FOR THE YEAR 1960

MEAN

MAXIMUM

48,100 cfs on September 7

MAXIMUM INSTANTANEOUS

MINIMUM

25,300 cfs on July 28

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

Stage discharge relation is extrapolated above 48,200 cfs and below 14,800 cfs.

Accuracy of records: fair.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

12.0 MI. UPSTREAM FROM THE DENYS RIVER

STATION NUMBER 093802

DRAINAGE AREA 14000 SQ. MI. **

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	27,600	16,000	--	--	--	--
2	--	--	--	--	--	--	27,300	16,000	--	--	--	--
3	--	--	--	--	--	--	27,200	15,600	--	--	--	--
4	--	--	--	--	--	--	27,000	15,300	--	--	--	--
5	--	--	--	--	--	21,500	26,500	14,900*	--	--	--	--
6	--	--	--	--	--	21,500	26,000	14,200C	--	--	--	--
7	--	--	--	--	--	21,600	25,600	13,900	--	--	--	--
8	--	--	--	--	--	21,600	25,200	13,800	--	--	--	--
9	--	--	--	--	--	21,600	25,200	13,800	--	--	--	--
10	--	--	--	--	--	21,900	24,800	14,000	--	--	--	--
11	--	--	--	--	--	22,000	24,400	14,700	--	--	--	--
12	--	--	--	--	--	22,400	24,100	15,400	--	--	--	--
13	--	--	--	--	--	23,100	23,400	15,200	--	--	--	--
14	--	--	--	--	--	23,300	22,900	14,700	--	--	--	--
15	--	--	--	--	--	23,500	22,700	14,700	--	--	--	--
16	--	--	--	--	--	23,800	22,100	14,800	--	--	--	--
17	--	--	--	--	--	23,800	21,500	14,800	--	--	--	--
18	--	--	--	--	--	23,800	21,000*	14,700	--	--	--	--
19	--	--	--	--	--	24,900	20,700	14,500	--	--	--	--
20	--	--	--	--	--	28,300	20,300	14,300	--	--	--	--
21	--	--	--	--	--	29,200*	20,200	14,100	--	--	--	--
22	--	--	--	--	--	29,300	19,700	13,900	--	--	--	--
23	--	--	--	--	--	29,100	19,200	13,300	--	--	--	--
24	--	--	--	--	--	29,000	18,800*	13,200	--	--	--	--
25	--	--	--	--	--	28,500	18,200	13,200	--	--	--	--
26	--	--	--	--	--	27,900	18,000	13,300C	--	--	--	--
27	--	--	--	--	--	27,700	17,800	--	--	--	--	--
28	--	--	--	--	--	27,700	17,600	--	--	--	--	--
29	--	--	--	--	--	27,500	17,200	--	--	--	--	--
30	--	--	--	--	--	27,600	16,600	--	--	--	--	--
31	--	--	--	--	--	--	16,200	--	--	--	--	--
MEAN	--	--	--	--	--	--	22,100	--	--	--	--	--
MAX.	--	--	--	--	--	--	27,600	--	--	--	--	--
MTN.	--	--	--	--	--	--	16,200	--	--	--	--	--

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

29,300 cfs on June 22

48,100 cfs on September 7, 1960

MAXIMUM INSTANTANEOUS

29,400 cfs on June 22 at 3 a.m.

MINIMUM

13,200C cfs on August 24 and 25

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

C - By comparison with Denys River and Grande Rivière de la Baleine, 8.7 miles from Mouth, August 6 to 26. Stage discharge relation is extrapolated above 48,200 cfs and below 14,800 cfs.

Accuracy of records: good.

This Station was replaced on August 27, 1961, by Station No. 093801 located 7.0 miles upstream.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

19.0 MI. UPSTREAM FROM THE DENYS RIVER

STATION NUMBER 093801

DRAINAGE AREA 13800 SQ. MI. **

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	---	---	---	---	---	---	---	---	12,900	15,100	18,200	15,000E
2	---	---	---	---	---	---	---	---	12,900	15,700	18,100	14,900
3	---	---	---	---	---	---	---	---	12,900	16,400	18,000B	14,800
4	---	---	---	---	---	---	---	---	12,600	16,900	18,500	14,600
5	---	---	---	---	---	---	---	---	12,600	17,200	19,300	14,500
6	---	---	---	---	---	---	---	---	12,500	17,700	19,800	14,200
7	---	---	---	---	---	---	---	---	12,600	18,300	19,800	14,000
8	---	---	---	---	---	---	---	---	12,500	18,600	19,700	13,900
9	---	---	---	---	---	---	---	---	12,400*	18,600	19,700	13,800
10	---	---	---	---	---	---	---	---	12,400	18,600	19,000	13,700
11	---	---	---	---	---	---	---	---	12,300	18,700	18,800	13,500
12	---	---	---	---	---	---	---	---	12,300	18,500	18,500	13,300
13	---	---	---	---	---	---	---	---	12,300	18,500	18,200	13,200
14	---	---	---	---	---	---	---	---	12,500	18,500	18,000	13,100
15	---	---	---	---	---	---	---	---	12,500	18,500	17,800	13,000
16	---	---	---	---	---	---	---	---	12,600	18,200	17,500	12,900
17	---	---	---	---	---	---	---	---	12,800*	18,100	17,400	12,800
18	---	---	---	---	---	---	---	---	12,700	18,100	17,400	12,700
19	---	---	---	---	---	---	---	---	12,700	18,400	17,200	12,600
20	---	---	---	---	---	---	---	---	12,900	18,400	17,100	12,500
21	---	---	---	---	---	---	---	---	13,700	18,400	17,000	12,300
22	---	---	---	---	---	---	---	---	14,100	18,100	16,800	12,200
23	---	---	---	---	---	---	---	---	14,300	18,100	16,600	12,000
24	---	---	---	---	---	---	---	---	14,600	18,100	16,500	11,800
25	---	---	---	---	---	---	---	---	14,900	18,100	16,200	11,700
26	---	---	---	---	---	---	---	---	14,900	18,100	16,000E	11,600
27	---	---	---	---	---	---	---	13,100	14,900	18,200	15,800	11,500
28	---	---	---	---	---	---	---	13,300	14,900	18,200	15,600	11,300
29	---	---	---	---	---	---	---	13,100	14,900	18,100	15,500	11,100
30	---	---	---	---	---	---	---	13,200	14,900	18,100	14,800	10,800
31	---	---	---	---	---	---	---	13,000*	---	18,100	---	10,700
MEAN	---	---	---	---	---	---	---	---	13,300	18,000	17,600E	12,900E
MAX.	---	---	---	---	---	---	---	---	14,900	18,700	19,800	15,000E
MIN.	---	---	---	---	---	---	---	---	12,300	15,100	14,800E	10,700E

FOR THE YEAR 1961

MEAN

MAXIMUM

19,800 cfs on November 6 and 7

MAXIMUM INSTANTANEOUS

MINIMUM

10,700E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 3.

E - Estimated from November 26.

Stage discharge relation is extrapolated above 30,300 cfs and below 4,600 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

This Station replaces Station No. 093802.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

19.0 MI. UPSTREAM FROM THE DENYS RIVER

STATION NUMBER 093801

DRAINAGE AREA 13800 SQ. MI. **

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	10,500E	6,700E	5,190E	4,600*	4,140	29,200	33,000	21,100*	13,500	19,600	20,000	16,800E
2	10,200	6,600	5,160*	4,600E	4,230	28,900	33,000	20,500	13,400	19,600	19,900	16,700
3	10,000	6,550	5,130	4,600E	4,500	28,700	32,700	20,000	13,400	19,600	19,500	16,500
4	9,800	6,500	5,100	4,600	5,030	28,700	31,800	19,900	13,400	19,400	19,500	16,400
5	9,600	6,450	5,060	4,600	6,190	28,800	30,100	19,400	15,100	19,500	19,200	16,200
6	9,300	6,400	5,030	4,640	6,950	28,900	29,600	18,700	16,800	19,500	19,200	16,100
7	9,000	6,350	5,000	4,640	7,130	28,900	29,300	18,300	16,800	19,500	19,200	16,000
8	8,800	6,300	4,970	4,500	7,350	28,900	30,100	17,800	16,800	19,500	19,200	15,800
9	8,700	6,200	4,950	4,500	7,920	28,900	29,900	17,600	16,600	19,500	19,200	15,600
10	8,600	6,100	4,930	4,600	8,140	29,200	29,900	17,100	16,500	19,500	19,200	15,400
11	8,500	6,000	4,900	4,680	8,600	29,200	29,900	16,700	16,500	19,500	19,200	15,100
12	8,400	5,950	4,890	4,600	9,450	29,100	29,600	16,200	16,400	19,500	19,000	15,000
13	8,300	5,900	4,880	4,480	10,900	29,300	31,700	15,900	16,300	19,500	18,500	14,900
14	8,200	5,850	4,860	4,460	12,800	29,300	31,800	15,800	16,300	19,500	18,300	14,600
15	8,100	5,800	4,840	4,420	14,400B	29,300	30,800	15,600	16,700	19,500	18,200	14,300
16	8,000	5,750	4,820	4,420	17,800	29,300	29,800	15,700	17,400	20,000	17,300	14,000
17	7,900	5,700	4,800	4,430	22,000	29,300	28,900	15,800	17,900	20,600	17,000B	13,800
18	7,800	5,650	4,780	4,430	26,900	29,500	28,100	15,800	18,000	21,500	16,900	13,400
19	7,700	5,600	4,760	4,460	33,000	29,600	27,700	15,800	18,500	21,600	16,800	13,100
20	7,600	5,550	4,750	4,460	34,600	29,600	27,100	15,800	18,900	21,600	16,800	13,000
21	7,500	5,500	4,730	4,420	35,000	29,700	26,600	15,800	19,300	21,600	16,600	12,800
22	7,400	5,450	4,720	4,390	35,100	29,700	26,200	15,600	19,700	21,600	16,700	12,500
23	7,300	5,400	4,710	4,410	35,300	29,700	25,400	15,200	19,900	21,600	16,700	12,100
24	7,200	5,350	4,700	4,370	35,300	30,500	24,900	14,900	19,900	21,600	16,700	11,900
25	7,150	5,300	4,680	4,240	35,300	30,200	24,300	14,700	20,100	21,600	16,700	11,700
26	7,100	5,250	4,660	4,180	34,100	30,500*	24,200	14,300	20,400	21,600	16,700	11,500
27	7,050	5,220	4,640	4,140	32,300	30,600	23,700	14,100	20,400	21,600	16,600	11,100
28	7,000	5,200	4,630	4,120	30,900	33,000	23,000	14,000	20,200	21,600	16,500E	10,800
29	6,900*	--	4,620	4,100	30,200	33,000	22,200	14,000	20,100	21,300	16,400	10,500
30	6,850	--	4,610	4,100	29,800	33,000	22,000	13,600	19,900	21,000	16,200	10,200
31	6,800	--	4,600	--	29,400	--	21,500	13,300	--	20,500	--	10,000
MEAN	8,170E	5,880E	4,840E	4,440	19,800	29,800	28,000	16,400	17,500	20,400	17,900	13,800E
MAX.	10,500E	6,700E	5,190E	4,680	35,300	33,000	33,000	21,100*	20,400	21,600	20,000	16,800E
MTN.	6,800E	5,200E	4,600E	4,100	4,140	28,700	21,500	13,300	13,400	19,400	16,200E	10,000E
M.F.C.	.522	.375	.309	.283	1.267	1.901	1.791	1.049	1.118	1.306	1.146	.882

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

15,600 cfs

15,600 cfs

MAXIMUM

35,300 cfs, May 23 to 25

35,300 cfs, May 23 to 25, 1962

MAXIMUM INSTANTANEOUS

36,000 cfs on May 25 at 1 a.m.

36,000 cfs on May 25, 1962 at 1 a.m.

MINIMUM

4,100 cfs on April 29 and 30

4,100 cfs on April 29 and 30, 1962

MINIMUM INSTANTANEOUS

4,070 cfs on April 30 at 6 a.m.

4,070 cfs on April 30, 1962 at 6 a.m.

NOTES:

* - Discharge measurement.

B - Ice effect to May 15 and from November 17.

E - Estimated to April 3 and from November 28.

Stage discharge relation is extrapolated above 62,100 cfs and below 4,600 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

19.0 MI. UPSTREAM FROM THE DENYS RIVER

STATION NUMBER 093801

DRAINAGE AREA 13800 SQ. MI. **

STATION IN OPERATION SINCE 1961

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	9,900E	6,200E	4,750E	4,130E	13,400	34,000	27,900*	23,200	21,200	23,100	20,400	22,500E
2	9,700	6,150	4,700	4,140E	13,500	33,900	27,500	23,300	21,500	23,100	20,000	22,800B
3	9,400	6,050	4,650	4,160	14,100	33,900	27,400	23,800	22,200	23,100	19,600	22,900
4	9,200	6,000	4,620	4,300	18,000	33,800	26,900	24,400	22,600	22,800	19,600	23,000
5	9,000	5,900	4,600	4,350	20,200	33,000	26,900	24,500	22,800	22,800	19,200	23,100
6	8,800	5,850	4,570	4,160	20,100	32,200	26,400	24,500	22,900	22,800	19,200	23,100
7	8,700	5,800	4,550	4,200	19,500	32,200	25,800	24,500	22,900	22,800	19,200	23,100
8	8,600	5,750	4,520	4,370	18,700	32,200	25,800	24,500	23,500	23,000	19,600	23,100
9	8,400	5,700	4,500	4,370	17,800	32,200	25,800*	24,500	23,600	23,100	19,600	23,100
10	8,300	5,650	4,460	4,400	17,100	32,200	25,300	24,200	23,400	23,100	19,600B	23,000
11	8,200	5,600	4,420	4,460	16,300	32,100	24,800	23,700	23,500	22,800	19,300	22,900
12	8,050	5,500	4,410	4,460	15,800	32,100	24,300	23,100	23,500	22,800	18,900	22,800
13	7,950	5,450	4,400	4,400	15,700	32,100	24,300	22,800	23,600	22,200	18,400	22,400
14	7,900	5,400	4,370	4,400	16,100	32,000	24,500	22,300	23,600	21,800	17,700	22,100
15	7,750	5,350	4,340	4,400	16,700	32,400	24,700	22,300	23,600	21,800	16,900	21,900
16	7,600	5,300	4,320	4,430	17,900	32,800	24,500	21,900	23,800	21,000	16,700	21,500
17	7,550	5,250	4,300	4,620	20,600	32,700	24,200	21,800	23,600	20,800	16,500	21,000
18	7,450	5,200	4,290	4,880	23,200	32,700	24,200	21,400	23,600	20,800	16,500	20,400
19	7,350	5,150	4,260	5,170	26,500	32,300I	24,200	21,300	24,000	20,800	16,600	19,900
20	7,200	5,100	4,230	5,640	29,700	31,900I	24,400	21,700	24,000	20,800	16,700	19,200
21	7,100	5,050	4,210	5,640	33,800	31,600I	24,900	22,200	23,900	20,000	17,000	18,700
22	7,000	5,000	4,200	5,840	33,900	31,200I	25,100	22,300	23,600	20,100	17,500	18,200
23	6,950	4,950	4,190	6,210	34,000	30,800I	24,700	22,300	23,600	20,800	18,000	17,800
24	6,850	4,900	4,180	6,780	34,000	30,400I	24,600	22,300	23,600	21,300	18,700	17,000
25	6,800	4,900	4,180	7,770	35,000I	30,000I	24,200	22,200*	23,600	21,600	19,200E	16,500
26	6,700	4,900	4,180	8,250	36,000I	29,600I	23,700	21,800	23,900	21,300	20,000B	16,000
27	6,600	4,850	4,170	8,910	37,100	29,200I	23,400	21,600	24,100	20,800	20,900	15,500
28	6,500	4,800*	4,170	10,300	36,400	28,800I	23,600*	21,500	24,300	20,800	21,300	15,000
29	6,450*	--	4,160	11,900	34,900	28,400I	22,400	21,500	24,000	20,800	21,800	14,800
30	6,400	--	4,150	13,100B	34,800	28,000I	22,900	21,200	23,700	20,600	22,200	14,200
31	6,300	--	4,120	--	34,300	--	23,200	21,200	--	20,200	--	13,900
MEAN	7,760E	5,420E	4,360E	5,800	24,400	31,700	24,900	22,700	23,400	21,700	18,900E	20,000E
MAX.	9,900E	6,200E	4,750E	13,100	37,100	34,000	27,900*	24,500	24,300	23,100	22,200E	23,100E
MIN.	6,300E	4,800*	4,120E	4,130E	13,400	28,000I	22,400	21,200	21,200	20,000	16,500	13,900E
M.F.C.	.439	.306	.246	.328	1.378	1.794	1.410	1.285	1.324	1.230	1.069	1.134

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 17,700 cfs

MAXIMUM 37,100 cfs on May 27

MAXIMUM INSTANTANEOUS 37,300 cfs on May 27 at 11.30 a.m.

MINIMUM 4,120E cfs on March 31

MINIMUM INSTANTANEOUS

16,700 cfs

37,100 cfs on May 27, 1963

37,300 cfs on May 27, 1963 at 11.30 a.m.

4,100 cfs on April 29 and 30, 1962

4,070 cfs on April 30, 1962 at 6 a.m.

NOTES:

* - Discharge measurement.
 B - Ice effect to April 30, November 10 to 26 and from December 2.
 I - Interpolated.
 E - Estimated to April 2 and from November 25.
 Stage discharge relation is extrapolated above 62,100 cfs and below 4,600 cfs.
 Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

GRANDE RIVIERE DE LA BALEINE

AT OUTLET OF BIENVILLE LAKE

STATION NUMBER 093806

DRAINAGE AREA - 8320 SQ. MI.

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	14,600	9,220	13,400	13,500	11,000E
2	--	--	--	--	--	--	--	14,400	9,400	13,400	13,500	10,900
3	--	--	--	--	--	--	--	13,900	9,820	13,500	13,900	10,700
4	--	--	--	--	--	--	--	13,500	9,820	13,500	13,100	10,500
5	--	--	--	--	--	--	--	13,000	9,780	13,300	13,100	10,400
6	--	--	--	--	--	--	--	12,700	9,600	13,500	13,500	10,400
7	--	--	--	--	--	--	--	12,500	9,500	13,500	13,500	10,300
8	--	--	--	--	--	--	--	12,300	9,440	13,500	13,500	10,200
9	--	--	--	--	--	--	--	12,200	9,400	13,700	13,600	10,200
10	--	--	--	--	--	--	--	12,100	9,400	13,900	13,500	10,100
11	--	--	--	--	--	--	--	11,800	9,820	14,000	13,500E	10,100
12	--	--	--	--	--	--	--	11,600	10,200	13,900	13,500	10,000
13	--	--	--	--	--	--	--	11,200	10,300	13,800	13,500	10,000
14	--	--	--	--	--	--	--	11,100	10,300	13,500	13,500	10,000
15	--	--	--	--	--	--	--	11,100	10,300	13,500	13,300	10,000
16	--	--	--	--	--	--	--	11,100	10,100	13,500	12,800	9,900
17	--	--	--	--	--	--	--	11,000C	10,200	13,600	12,600	9,900
18	--	--	--	--	--	--	19,700*	11,000	10,400	13,600	12,300	9,800
19	--	--	--	--	--	--	--	19,100	11,000	10,700	13,500	12,300
20	--	--	--	--	--	--	--	18,700	11,000	10,700	13,500	12,100
21	--	--	--	--	--	--	--	18,300	11,000	10,800	13,500	12,600
22	--	--	--	--	--	--	--	18,200	10,900	11,000	13,500	12,200
23	--	--	--	--	--	--	--	18,200	10,800	11,000	13,500	11,900
24	--	--	--	--	--	--	--	17,500	10,700	11,000	13,500	11,600
25	--	--	--	--	--	--	--	17,100	10,500	11,100	13,700	11,600
26	--	--	--	--	--	--	--	16,500	10,300	11,200	13,500	11,600
27	--	--	--	--	--	--	--	16,400	10,100	11,600	13,500	11,500E
28	--	--	--	--	--	--	--	16,400	9,900	12,100	13,500	11,400
29	--	--	--	--	--	--	--	16,100	9,700	12,800	13,500	11,300
30	--	--	--	--	--	--	--	15,500	9,450C	13,000	13,500	11,100
31	--	--	--	--	--	--	--	15,000	9,280	--	13,500	--
MEAN	--	--	--	--	--	--	--	11,500E	10,500	13,600	12,700	9,650E
MAX.	--	--	--	--	--	--	--	14,600	13,000	14,000	13,900	11,000E
MIN.	--	--	--	--	--	--	--	9,280	9,220	13,300	11,100E	8,000E

FOR THE YEAR 1962

MEAN

MAXIMUM

19,700 cfs on July 18

MAXIMUM INSTANTANEOUS

MINIMUM

8,000E cfs on December 31

MINIMUM INSTANTANEOUS

* - Discharge measurement.

B - Ice effect from November 11.

C - By comparison with the Grande Rivière de la Baleine, 19.0 miles upstream of the Denys River, August 17 to 30.

E - Estimated from November 27.

Stage discharge relation is extrapolated above 39,300 cfs and below 12,200 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

GRANDE RIVIERE DE LA BALEINE

AT OUTLET OF BIENVILLE LAKE

STATION NUMBER 093806

DRAINAGE AREA - 8320 SQ. MI.

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	8,000E	5,050	3,620	3,010E	3,500E	15,300E	21,100	16,800	13,400	12,800	11,600	9,450E
2	7,800	5,000	3,580*	3,010	3,600	16,100	21,000	16,600	13,400	12,800	11,700	9,550
3	7,700	4,950	3,530	3,000	3,700	17,000	20,800	16,600	13,100	13,000	11,700	9,600
4	7,550	4,880	3,500	3,000	3,850	18,000	21,000	16,600	13,000	13,200	11,700	9,600
5	7,400	4,800	3,490	3,000	4,000	18,500	21,100	16,500	13,000	12,900	11,700B	9,600
6	7,200	4,750	3,450	3,000	4,200	19,700E	20,800	16,300	13,100	12,800	11,700	9,550
7	7,050	4,700	3,410	3,000	4,300	20,600*	20,100	15,900	13,100	12,500	11,700	9,500
8	6,900	4,650	3,400	3,000	4,500	21,000	20,100	15,200	13,100	12,400	11,600	9,450
9	6,780	4,600	3,390	2,990	4,700	21,900	19,700	14,800	13,100	12,400	11,500	9,400
10	6,700	4,500	3,360	2,980	4,800	22,800	19,300	14,600	13,500	12,400	11,400E	9,400
11	6,600	4,450	3,320	2,980	5,000	23,700	18,900*	14,700	13,500	12,400	11,300	9,350
12	6,550	4,400	3,310	2,980	5,250	24,300	18,400	14,400	13,500	12,400	11,200	9,250
13	6,450	4,380	3,300	2,980	5,500	24,900	17,500	14,400	13,100	12,600	11,000	9,200
14	6,400	4,300	3,290	2,980	5,800	25,200	16,900	14,400	13,100	12,600	10,900	9,150
15	6,300	4,250	3,260	2,990	6,250B	25,400	17,500	14,600	13,100	12,200	10,800	9,050
16	6,200	4,200	3,230	2,990	6,600	25,400	18,200	14,700	12,900	12,000	10,600	9,000
17	6,100	4,150	3,210	2,990	6,900	25,500	18,500	14,500	12,800	12,000	10,400	8,900
18	6,000	4,100	3,200	3,000	7,300	25,500	18,400	14,500	13,200	12,100	10,200	8,800
19	5,980	4,030	3,190	3,000	7,700	25,400	18,200	14,200	13,200	12,000	9,950	8,700
20	5,870	4,000	3,180	3,050	8,000	25,200	17,600	13,700	13,500	12,100	9,750	8,600
21	5,800	3,980	3,170	3,050	8,400	25,200*	17,500	13,300	13,600	11,900	9,600	8,500
22	5,700	3,920	3,150	3,060	9,000	25,400	17,200	13,300	13,200	11,700	9,450	8,400
23	5,600	3,890	3,130	3,080	9,500	25,200	16,600	13,500	13,200	11,700	9,200	8,300
24	5,550	3,830	3,110	3,100	10,000	24,600	16,500	13,900	13,200	11,700	9,050	8,200
25	5,500	3,800	3,100	3,140	10,500	23,500	16,400*	14,300	13,200	11,700	9,000	8,050
26	5,450E	3,770	3,090	3,180	11,000	22,500	15,900	14,400	13,200	11,700	9,010	8,000
27	5,400*	3,710	3,080	3,200	11,700	22,100	15,900	14,300*	12,900	11,700	9,050	7,850
28	5,300	3,690	3,060	3,300	12,800	21,800	15,600	14,100	12,500	11,500	9,100	7,750
29	5,250	--	3,050*	3,400	13,500	22,100	15,800	13,900	12,500	11,300	9,200	7,600
30	5,200	--	3,040	3,450	14,000	21,800*	16,600	13,700	12,800	11,300	9,400	7,500
31	5,100	--	3,020	--	14,500	--	17,000	13,700	--	11,300	--	7,400
MEAN	6,300E	4,310	3,270	3,060E	7,430E	22,500E	18,300	14,700	13,100	12,200	10,500E	8,800E
MAX.	8,000E	5,050	3,620	3,450E	14,500E	25,500	21,100	16,800	13,600	13,200	11,700	9,600E
MIN.	5,100	3,690	3,020	2,980E	3,500E	15,300E	15,600	13,300	12,500	11,300	9,000E	7,400E
M.F.C.	.606	.414	.313	.294	.714	2.165	1.755	1.415	1.262	1.169	1.007	.845

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (1 Year)

MEAN 10,400 cfs

MAXIMUM 25,500 cfs on June 17 and 18

MAXIMUM INSTANTANEOUS 25,700 cfs on June 17 at 2 p.m.

MINIMUM 2,980E cfs, April 10 to 14

MINIMUM INSTANTANEOUS

10,400 cfs

25,500 cfs on June 17 and 18, 1963

25,700 cfs on June 17, 1963 at 2 p.m.

2,980E cfs, April 10 to 14, 1963

NOTES:

* - Discharge measurement.

B - Ice effect to May 15 and from November 5.

E - Estimated to January 26, April 1 to June 6 and from November 10.

Stage discharge relation is extrapolated above 39,300 cfs and below 12,200 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

BIENVILLE LAKE

STATION NUMBER 093807

GAUGE - RECORDING

STATION IN OPERATION SINCE 1962

DAILY WATER ELEVATION IN FEET FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	97.16	--	--	--
2	--	--	--	--	--	--	--	--	96.78	--	--	--
3	--	--	--	--	--	--	--	--	96.80	--	--	--
4	--	--	--	--	--	--	--	97.52	96.80	--	--	--
5	--	--	--	--	--	--	--	97.39	96.95	--	--	--
6	--	--	--	--	--	--	--	97.09	96.76	--	--	--
7	--	--	--	--	--	--	--	97.29	96.83	--	--	--
8	--	--	--	--	--	--	--	97.36	96.75	--	--	--
9	--	--	--	--	--	--	--	97.27	96.80	--	--	--
10	--	--	--	--	--	--	--	97.26	97.18	--	--	--
11	--	--	--	--	--	--	--	97.19	97.12	--	--	--
12	--	--	--	--	--	--	--	97.16	96.91	--	--	--
13	--	--	--	--	--	--	--	97.28	96.76	--	--	--
14	--	--	--	--	--	--	--	97.20	96.67	--	--	--
15	--	--	--	--	--	--	--	97.12	96.74	--	--	--
16	--	--	--	--	--	--	--	97.00	96.89	--	--	--
17	--	--	--	--	--	--	--	97.06	97.05	--	--	--
18	--	--	--	--	--	--	--	96.78	96.97	--	--	--
19	--	--	--	--	--	--	--	96.95	96.99	--	--	--
20	--	--	--	--	--	--	--	95.97	96.94	--	--	--
21	--	--	--	--	--	--	--	96.97	96.99	--	--	--
22	--	--	--	--	--	--	--	96.95	96.95	--	--	--
23	--	--	--	--	--	--	--	96.83	96.81	--	--	--
24	--	--	--	--	--	--	--	96.89	--	--	--	--
25	--	--	--	--	--	--	--	96.83	--	--	--	--
26	--	--	--	--	--	--	--	96.75	--	--	--	--
27	--	--	--	--	--	--	--	96.82	--	--	--	--
28	--	--	--	--	--	--	--	96.94	--	--	--	--
29	--	--	--	--	--	--	--	96.84	--	--	--	--
30	--	--	--	--	--	--	--	96.63	--	--	--	--
31	--	--	--	--	--	--	--	96.77	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	96.63	--	--	--	--

FOR THE YEAR 1962

MEAN

MAXIMUM

97.52 feet on August 4

MAXIMUM INSTANTANEOUS

MINIMUM

96.63 feet on August 30

MINIMUM INSTANTANEOUS

96.40 feet at 10.15 a.m. on August 30

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. H-9B-5-RA, elevation 100.00 feet.

BIENVILLE LAKE

STATION NUMBER 093807

GAUGE - RECORDING

STATION IN OPERATION SINCE 1962

DAILY WATER ELEVATION IN FEET FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			95.40	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	98.43	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	98.97	--	--	97.47	--	--	--
13	--	--	--	--	--	99.07	--	--	--	--	--	--
14	--	--	--	--	--	99.13	--	--	--	--	--	--
15	--	--	--	--	--	99.16	--	--	--	--	--	--
16	--	--	--	--	--	99.18	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	97.88	--	--	--	--	--
26	95.84	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	97.80	97.34	--	--	--
29	--	--	95.11	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

99.18 feet on June 16

99.18 feet on June 16, 1963

95.11 feet on March 29

95.11 feet on March 29, 1963

NOTES:

Water levels referred to assumed datum determined by Bench Mark No. H-9B-5-RA, elevation 100.00 feet.

DENYS

16.7 MI. FROM THE GRANDE RIVIERE DE LA BALEINE

STATION NUMBER 093804

DRAINAGE AREA - 1590 SQ. MI

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1960												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	3,960	4,040	3,220	3,020	2,350E
2	--	--	--	--	--	--	--	4,090	3,980	3,190	3,030	2,300
3	--	--	--	--	--	--	--	4,200	3,940	3,190	3,040	2,280
4	--	--	--	--	--	--	--	4,260	3,870	3,190	3,060	2,270
5	--	--	--	--	--	--	--	4,400*	3,830	3,190	3,080	2,250
6	--	--	--	--	--	--	--	4,450	3,840	3,330	3,070	2,200
7	--	--	--	--	--	--	--	4,450	3,780	3,430	3,070	2,180
8	--	--	--	--	--	--	--	4,480	3,620*	3,460	3,130	2,170
9	--	--	--	--	--	--	--	4,400	3,590	3,530	3,120	2,130
10	--	--	--	--	--	--	--	4,300	3,510	3,580	2,930	2,090
11	--	--	--	--	--	--	--	4,300	3,370	3,640	2,860B	2,050
12	--	--	--	--	--	--	--	4,240	3,260	3,650	2,840	2,010
13	--	--	--	--	--	--	--	4,150	3,160	3,650	2,830	1,980
14	--	--	--	--	--	--	--	3,980	3,060	3,580	2,790	1,960
15	--	--	--	--	--	--	--	3,930	3,000	3,530	2,750	1,900
16	--	--	--	--	--	--	--	3,890	2,940	3,530	2,730	1,880
17	--	--	--	--	--	--	--	3,880	2,940	3,470	2,720	1,840
18	--	--	--	--	--	--	--	3,920	2,920	3,440	2,690	1,800
19	--	--	--	--	--	--	--	3,940I	2,920	3,370	2,640	1,770
20	--	--	--	--	--	--	--	3,970I	2,980	3,330	2,620	1,720
21	--	--	--	--	--	--	--	4,000I	2,970	3,320	2,600	1,690
22	--	--	--	--	--	--	--	4,020I	2,970	3,290	2,530	1,670
23	--	--	--	--	--	--	--	4,050I	3,050*	3,250	2,480E	1,620
24	--	--	--	--	--	--	4,280*	4,080I	3,120	3,200	2,450	1,580
25	--	--	--	--	--	--	4,230	4,100*	3,190	3,180	2,440	1,550
26	--	--	--	--	--	--	4,150	4,140	3,190	3,170	2,430	1,520
27	--	--	--	--	--	--	4,060	4,100	3,200	3,170	2,410	1,490
28	--	--	--	--	--	--	4,020	4,110	3,190	3,150	2,400	1,470
29	--	--	--	--	--	--	4,000	4,140	3,280*	3,100	2,390	1,410
30	--	--	--	--	--	--	3,980	4,080	3,280	3,070	2,370	1,380
31	--	--	--	--	--	--	3,930	4,100	--	3,040	--	1,360
MEAN	--	--	--	--	--	--	--	4,130	3,330	3,340	2,750E	1,870E
MAX.	--	--	--	--	--	--	--	4,480	4,040	3,650	3,130	2,350E
MIN.	--	--	--	--	--	--	--	3,880	2,920	3,040	2,370E	1,360E

FOR THE YEAR 1960

MEAN

MAXIMUM

4,480 cfs on August 8

MAXIMUM INSTANTANEOUS

MINIMUM

1,360E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 11.

I - Interpolated.

E - Estimated from November 23.

Stage discharge relation is extrapolated above 9,630 cfs and below 1,190 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

DENYS

187

16.7 MI. FROM THE GRANDE RIVIERE DE LA BALEINE

STATION NUMBER 093804

DRAINAGE AREA - 1590 SQ. MI

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1961												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,320E	725E	575E	--	--	3,200I	3,240	1,330	1,290	2,590	2,250	2,110E
2	1,280	715	570	--	--	3,100I	3,260	1,330	1,290	2,650	2,210	2,080
3	1,260	710	565	--	--	2,900I	3,270	1,320	1,290	2,690	2,210	2,000
4	1,220	700	560	--	--	2,700I	3,260	1,280	1,250	2,720	2,210	1,960
5	1,190	695	560	--	--	2,550	3,280	1,240*	1,230	2,910	2,270	1,900
6	1,170	690	555	--	--	2,450	3,330	1,230	1,250	3,000	2,380	1,820
7	1,160	685	555	--	--	2,390	3,300	1,220	1,290	3,100	2,450	1,780
8	1,120	680	550	--	--	2,360	3,290	1,160	1,300	3,230	2,490	1,710
9	1,090	670	545	--	--	2,250	3,260	1,160	1,300	3,230	2,560	1,680
10	1,070	665	540	--	--	2,170	3,140	1,230	1,310	3,230	2,690	1,600
11	1,040	660	540	--	--	2,110	3,010	1,340	1,290	3,240	2,710	1,550
12	1,030	655	535	--	--	2,110	2,860	1,340	1,250	3,270	2,710	1,500
13	1,000	650	535	--	--	2,080	2,810	1,370	1,270	3,230	2,710	1,460
14	980	645	530	--	--	2,090	2,720	1,380	1,270	3,220	2,710	1,410
15	955	640	530	--	--	2,080	2,630	1,430	1,280	3,140	2,710	1,370
16	940	635	525	--	--	2,100*	2,550	1,470	1,290	3,010	2,710	1,310
17	920	630	525	--	--	2,010	2,440	1,510	1,360	2,930	2,710	1,280
18	900	620	525	--	--	1,950	2,300	1,570	1,370	2,860	2,710	1,220
19	880	620	520	--	--	1,990	2,190	1,570	1,380	2,840	2,660	1,190
20	870	615	520	--	--	2,120	2,110	1,570	1,400	2,820	2,560	1,170
21	850	610	520	--	--	2,260	2,010	1,570	1,510	2,750	2,480E	1,130
22	840	605	520	--	--	2,440	1,920	1,570	1,600	2,710	2,420	1,090
23	820	600	515	--	--	2,660	1,860	1,570	1,730	2,690	2,400	1,060
24	800	600	515	--	--	2,870	1,750	1,560	1,820	2,610	2,380	1,040
25	790	595	515	--	--	3,020	1,690	1,480	2,020	2,520	2,370B	990
26	780	590	510	--	--	3,170	1,630*	1,460	2,210	2,480	2,340	960
27	770	590	510	--	--	3,320	1,580	1,420	2,320	2,470	2,300	934
28	760*	585	510	--	--	3,370	1,520	1,390	2,370	2,450	2,260	892
29	745	--	505	--	--	3,400	1,460	1,330	2,550	2,440	2,210	861
30	740	--	505	--	--	3,370*	1,390	1,290	2,580	2,400	2,170	842
31	730	--	505E	--	--	--	1,340	1,290	--	2,290	--	826
MEAN	968E	646E	532E	--	--	2,550	2,460	1,390	1,560	2,830	2,470E	1,380E
MAX.	1,320E	725E	575E	--	--	3,400	3,330	1,570	2,580	3,270	2,710	2,110E
MIN.	730E	585E	505E	--	--	1,950	1,340	1,160	1,230	2,290	2,170E	826E

FOR THE YEAR 1961

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

MAXIMUM INSTANTANEOUS

MINIMUM

MINIMUM INSTANTANEOUS

3,400 cfs on June 29

3,410 cfs at 6 p.m. on June 29

505E cfs, March 29 to 31

4,480 cfs on August 8, 1960

505E cfs, March 29 to 31, 1961

NOTES:

* - Discharge measurement.

B - Ice effect to beginning of May and from November 25.

I - Interpolated.

E - Estimated to March 31 and from November 21.

Stage discharge relation is extrapolated above 9,630 cfs and below 1,190 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

DENYS

16.7 MI. FROM THE GRANDE RIVIERE DE LA BALEINE

STATION NUMBER 093804

DRAINAGE AREA - 1590 SQ. MI

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	790E	505	442	418	439	6,100	2,630	1,800	1,240	2,930	2,560	1,600E
2	767	500	440	418*	445	5,840	2,730	1,740	1,220	2,940	2,560	1,600
3	750	500	440	418	455	5,650	2,770	1,660	1,210	2,840	2,480	1,590
4	733	497	440*	418	462	5,420	2,820	1,610	1,190	2,630	2,450	1,580
5	720	497	439	418	473	5,270	2,800	1,610	1,310	2,520	2,400	1,570
6	702	497	438	418	490	5,090	2,740	1,560	1,460	2,530	2,360	1,570
7	691	492	437	418	510	4,900	2,730	1,500	1,420	2,430	2,340	1,570
8	678	490	435	418	535	4,720	2,750	1,480	1,430	2,410	2,260	1,570
9	663	490	435	418	575	4,550	2,710	1,470	1,440	2,330	2,260	1,560
10	655	486	433	418	650	4,380	2,700	1,440	1,490	2,310	2,250	1,540
11	645	482	433	418	740	4,110	2,690	1,410	1,550	2,310	2,210	1,530
12	638	480	432	418	920	3,940	2,700	1,360	1,600	2,310	2,120	1,510
13	627	476	430	418	1,200B	3,760	2,850	1,350	1,660	2,220	1,920	1,500
14	618	475	428	418	1,600	3,610	3,000	1,310	1,800	2,150	1,820	1,490
15	607	472	425	418	1,900	3,550	3,000	1,280	1,910	2,080	1,810B	1,480
16	599	470	422	419	2,600	3,310	3,020	1,270	2,050	2,020	1,810	1,470
17	592	468	421	419	3,260	3,170	3,010	1,270	2,260	1,900	1,810	1,460
18	585	466	420	419	3,930	3,060	2,940	1,270	2,310	1,900	1,810	1,440
19	578	460	420	419	4,720	2,980	2,900	1,260	2,310	2,030	1,810	1,420
20	570E	460	420	419	5,420	2,840	2,830	1,270	2,420	2,110	1,800	1,400
21	563	458	420	420	6,000	2,750*	2,740	1,270	2,640	2,140	1,800	1,390
22	557	458	420	420	6,410	2,710	2,640	1,270	2,830	2,270	1,800	1,380
23	550	455	420	420	6,840	2,650	2,450	1,270	2,860	2,290	1,770	1,370
24	543	453	420	420	7,020	2,620	2,450	1,270	2,870	2,330	1,720	1,360
25	540	450	420	422	7,110	2,610	2,420	1,270	2,910	2,410	1,640	1,320
26	537	448	420	425	7,020	2,460*	2,310	1,270	3,000	2,510	1,640	1,310
27	532	447	420	425	6,930	2,400	2,170	1,270	3,000	2,630	1,640E	1,300
28	525	445	420	427	6,820	2,630	2,040	1,270	3,020	2,730	1,620	1,280
29	519	--	420	430	6,600	2,630	1,970	1,270	3,030	2,740	1,620	1,270
30	515*	--	420	435	6,380	2,560	1,880	1,260	3,000	2,730	1,610	1,260
31	510	--	420	--	6,330	--	1,860	1,250	--	2,710	--	1,240
MEAN	616E	474	427	420	3,380	3,740	2,620	1,380	2,080	2,400	1,990	1,450E
MAX.	790E	505	442	435	7,110	6,100	3,020	1,800	3,030	2,940	2,560	1,600E
MIN.	510	445	420	418	439	2,400	1,860	1,250	1,190	1,900	1,610E	1,240E
M.F.C.	.350	.270	.243	.239	1.925	2.131	1.492	.787	1.185	1.366	1.133	.825

FOR THE YEAR 1962

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

1,760 cfs

1,760 cfs

MAXIMUM

7,110 cfs on May 25

7,110 cfs on May 25, 1962

MAXIMUM INSTANTANEOUS

MINIMUM

418 cfs, April 1 to 15

418 cfs, April 1 to 15, 1962

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 13 and from November 15.

E - Estimated to January 20 and from November 27.

Stage discharge relation is extrapolated above 9,630 cfs and below 1,190 cfs

Accuracy of records: periods without effect of ice, good; those with ice effect, fair.

DENYS

16.7 MI. FROM THE GRANDE RIVIERE DE LA BALEINE

STATION NUMBER 093804

DRAINAGE AREA - 1590 SQ. MI

STATION IN OPERATION SINCE 1960

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,220E	845	680	600	2,310	8,470	2,210	2,240	1,880*	3,080	2,330	2,050B
2	1,210	840	675	598	2,700	8,350	2,080	2,260	1,880	3,090	2,330	2,110E
3	1,200	830	675	597	3,150	8,050	2,020	2,330	1,880	2,870	2,230	2,180
4	1,180	830	670	595	3,780	7,740	1,920	2,370	1,880	2,930	2,230	2,210
5	1,170	820	665	595	4,220	7,480	1,920	2,400*	1,880	2,860	2,220	2,250
6	1,160	810	665	592	4,580	7,140	1,830	2,410	1,920	2,750	2,220	2,290
7	1,150	805	660	590	4,910	6,790	1,820	2,370	1,980	2,750	2,220	2,310
8	1,140	800	660	585	5,120	6,550	1,810	2,380	2,130	2,750	2,130	2,320
9	1,120	795	655	583	5,320	6,280	1,770	2,410	2,290	2,750	2,130	2,330
10	1,090	785	655	583	5,320	5,940	1,760	2,330	2,360	2,670	2,130	2,340
11	1,080	780	655	583	5,320	5,730	1,710	2,340	2,450	2,650	2,130	2,330
12	1,070	775	650	582	5,240	5,390	1,710	2,340	2,500	2,650	2,130	2,310
13	1,050	770	650	580	5,260	5,100	1,710	2,240	2,490	2,630	2,040	2,290
14	1,040	765	645	580	5,280	4,850	1,670	2,250	2,550	2,530	2,030	2,260
15	1,030	755	645	580	5,300	4,610	1,750	2,250	2,580	2,520	1,960	2,210
16	1,020	745	640	580	5,330	4,270	1,780	2,250	2,490	2,430	1,870B	2,200
17	1,000	735	640	590	5,460	4,060	1,790	2,210	2,510	2,430	1,850	2,140
18	990	730	640	600	5,760	3,820	1,790	2,170	2,760	2,430	1,790	2,100
19	980	725	635	615	6,280	3,640	1,790	2,170	2,820	2,430	1,760	2,010
20	970E	720	630	635	6,670	3,530	1,790	2,160	2,860	2,360	1,720	1,990
21	955	715	625	650	7,070	3,400	1,800	2,090	3,010	2,340	1,700	1,900
22	945	710	625	670	7,540	3,290	1,810	2,090	3,050	2,340	1,680	1,800
23	935	705	620	715	7,950	3,170	1,840	2,140	3,120	2,340	1,660E	1,700
24	920	700	620	750	8,410	2,920	1,950	2,130	3,170	2,340	1,670	1,640
25	910	695	615	820	8,650	2,730	1,960	2,110	3,180	2,330	1,680	1,580
26	900	695	610	920	8,710	2,640	1,890	2,050*	3,180	2,330	1,720	1,500
27	895	695	605	1,100	8,810	2,460	1,880	2,010	3,180	2,330	1,790B	1,440
28	880	690*	605	1,250B	8,990	2,430	1,820	1,990	3,180	2,330	1,880	1,400
29	870*	--	605	1,600	9,050	2,330	1,980	1,900	3,180	2,330	1,940	1,330
30	860	--	600	1,900	8,830	2,230	2,110	1,890	3,080	2,330	2,000	1,300
31	850	--	600*	--	8,590	--	2,150	1,880	--	2,330	--	1,270
MFAN	1,030E	759	639	741	6,130	4,850	1,870	2,200	2,580	2,560	1,970E	1,970E
MAX.	1,220E	845	680	1,900	9,050	8,470	2,210	2,410	3,180	3,090	2,330	2,340E
MIN.	850	690*	600	580	2,310	2,230	1,670	1,880	1,880*	2,330	1,660E	1,270E
M.F.C.	.449	.332	.280	.324	2.683	2.122	.816	.963	1.130	1.119	.863	.863

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (2 Years)

MEAN 2,280 cfs

MAXIMUM 9,050 cfs on May 29

MAXIMUM INSTANTANEOUS 9,070 cfs at 3 p.m. on May 29

MINIMUM 580 cfs, April 13 to 16

MINIMUM INSTANTANEOUS

2,020 cfs

9,050 cfs on May 29, 1963

9,070 cfs at 3 p.m. on May 29, 1963

418 cfs, April 1 to 15, 1962

NOTES:

* - Discharge measurement.

B - Ice effect to April 29, November 16 to 27 and from December 1.

E - Estimated to January 20 and from November 23.

Stage discharge relation is extrapolated above 9,630 cfs and below 1,190 cfs.

Accuracy of records: fair.

COAST

7.3 MI. FROM THE GRANDE RIVIERE DE LA BALEINE

STATION NUMBER 093805

DRAINAGE AREA - 2370 SQ. MI. **

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	2,270	1,660	3,550	3,080	2,190E
2	--	--	--	--	--	--	--	2,210	1,630	3,420	3,080	2,140
3	--	--	--	--	--	--	--	2,140	1,580	3,310	2,980	2,100
4	--	--	--	--	--	--	--	2,110	1,550	3,090	3,070	2,060
5	--	--	--	--	--	--	--	2,080	2,180	3,080	3,070	2,040
6	--	--	--	--	--	--	--	2,020	3,060	3,080	3,070	2,010
7	--	--	--	--	--	--	--	1,990	3,180	3,080	3,070	2,000
8	--	--	--	--	--	--	--	1,970	3,070	3,080	2,980	1,990
9	--	--	--	--	--	--	--	1,930	2,870	3,060	2,950	1,960
10	--	--	--	--	--	--	--	1,880	2,770	2,970	2,940	1,940
11	--	--	--	--	--	--	--	1,800	2,630*	2,940	2,840	1,920
12	--	--	--	--	--	--	--	1,740	2,600	2,900	2,840	1,900
13	--	--	--	--	--	--	--	1,690	2,590	2,850	2,740	1,900
14	--	--	--	--	--	--	--	1,630	2,740	2,850	2,660	1,890
15	--	--	--	--	--	--	--	1,530	2,970	2,910	2,670	1,850
16	--	--	--	--	--	--	--	1,710	3,090	3,020	2,610	1,810
17	--	--	--	--	--	--	--	2,040	3,150	3,980	2,500	1,790
18	--	--	--	--	--	--	--	2,140	3,140	5,090	2,500	1,760
19	--	--	--	--	--	--	--	2,150	3,350	4,780	2,490	1,720
20	--	--	--	--	--	--	--	2,140	3,540	4,540	2,390B	1,680
21	--	--	--	--	--	--	3,520*	2,140	3,650	4,420	2,390	1,640
22	--	--	--	--	--	--	3,370	2,110	3,700	4,150	2,390	1,600
23	--	--	--	--	--	--	3,230	2,080	3,700	4,040	2,390	1,550
24	--	--	--	--	--	--	3,050	2,080	3,710	3,970	2,380	1,500
25	--	--	--	--	--	--	2,980	2,070	3,730	3,800	2,280	1,480
26	--	--	--	--	--	--	2,840	2,020	3,730	3,800	2,280	1,440
27	--	--	--	--	--	--	2,750	1,910	3,750	3,800	2,280	1,410
28	--	--	--	--	--	--	2,610	1,830	3,750	3,750	2,280E	1,390
29	--	--	--	--	--	--	2,490	1,750	3,760	3,610	2,230	1,340
30	--	--	--	--	--	--	2,400	1,710	3,680	3,310	2,000	1,310
31	--	--	--	--	--	--	2,350	1,680	--	3,140	--	1,290
MEAN	--	--	--	--	--	--	--	1,950	3,020	3,530	2,650	1,760E
MAX.	--	--	--	--	--	--	--	2,270	3,760	5,090	3,080	2,190E
MTN.	--	--	--	--	--	--	--	1,530	1,550	2,850	2,000E	1,290E

FOR THE YEAR 1962

MEAN

MAXIMUM

5,090 cfs on October 18

MAXIMUM INSTANTANEOUS

5,170 cfs on October 18

MINIMUM

1,290E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 20.

E - Estimated from November 28.

Stage discharge relation is extrapolated above 12,700 cfs and below 440 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

COAST

7.3 MI. FROM THE GRANDE RIVIERE DE LA BALEINE

STATION NUMBER 093805

DRAINAGE AREA - 2370 SQ. MI. **

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1,280E	790E	565*	439E	4,420	10,500	3,060*	2,360	3,190	4,780	4,040	2,400E
2	1,250	780	560E	438	4,420	10,100	2,930	2,360	3,400	5,140	3,790	2,440
3	1,220	770	555	436E	4,550	10,100	3,020	2,260	4,110	4,620	3,730	2,460
4	1,200	760	545	436	6,470	10,100	2,980	2,260	4,730	4,560	3,590	2,500
5	1,180	750	540	440	7,760	9,620	2,750	2,270	4,810	4,410	3,480	2,520
6	1,160	740	535	442	7,620	9,280	2,600	2,270	4,590	4,160	3,440	2,530
7	1,140	730	530	450	7,030	8,880	2,470	2,280	4,780	4,160	3,440	2,550
8	1,120	720	525	465	6,540	8,470*	2,360	2,480	5,230	4,390	3,400	2,570
9	1,100	710	520	485	6,040	7,930	2,390*	2,740	5,170	4,460	3,310	2,580
10	1,080	705	515	500	5,680	7,570	2,290	2,740	5,020	4,460	3,310	2,590
11	1,060	695	510	520	5,360	7,210	2,270	2,750	5,020	4,460	3,310	2,600
12	1,040	690	505	542	5,200	6,870	2,280	2,750	5,100	4,330	3,260	2,600
13	1,020	680	503	580	5,200	6,560	2,280	2,760	5,200	4,160	2,930	2,600
14	1,010	670	500	610	5,200	6,130	2,560	2,760	5,200	4,160	2,790	2,580
15	1,000	660	495	650	5,400I	5,750	2,920	2,770	5,300	4,160	2,720	2,570
16	980	655	490	700	6,050I	5,580	2,780	2,770	5,250	4,160	2,660B	2,550
17	960	650	485	750	7,000I	5,230	2,620	2,790	5,120	4,160	2,590	2,520
18	950	640	480	800	8,720	5,180	2,520	2,670	5,010	4,160	2,500	2,510
19	940	635	477	1,000	10,100	4,910	2,520	2,670	5,010	4,020	2,400	2,500
20	930	630	475	1,300	12,100	4,870	2,740	2,750	5,000	3,760	2,370	2,470
21	910	620	472	1,580	13,000	4,780	2,970	2,920	4,930	3,700	2,320	2,450
22	900	615	469	1,880	12,400	4,520	2,830	3,330	4,830	3,620	2,310	2,410
23	890	605	465	2,150	11,400	4,220*	2,660	3,550	4,650	4,010	2,310	2,400
24	880	600	460	2,400	11,000	3,970	2,540	3,690	4,510	4,200	2,310	2,360
25	865	595	459	2,570	12,300	3,720	2,560	3,730	4,370	4,320	2,280	2,320
26	850	590	455	2,740	12,800	3,650	2,500	3,450*	4,560	4,320	2,280E	2,290
27	840	580	450	2,870	12,300	3,490	2,420*	3,420	5,140	4,320	2,300	2,230
28	830	575	448	3,340	11,400	3,380	2,330	3,340	5,230	4,460	2,310	2,200
29	827*	--	444	4,040	11,000	3,310	2,330	3,300	5,100	4,440	2,340	2,180
30	805	--	442	4,390B	11,200	3,220	2,350	3,300	4,930	4,260	2,360	2,150
31	800	--	440*	--	11,000	--	2,350	3,190	--	4,160	--	2,120
MEAN	1,000E	673E	494E	1,330	8,410	6,300	2,590	2,860	4,820	4,270	2,870E	2,440E
MAX.	1,280E	790E	565*	4,390	13,000	10,500	3,060*	3,730	5,300	5,140	4,040	2,600E
MIN.	800E	575E	440*	436E	4,420	3,220	2,270	2,260	3,190	3,620	2,280	2,120E
M.F.C.	.314	.211	.155	.417	2.639	1.978	.811	.898	1.512	1.341	.901	.767

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (1 Year)

MEAN 3,190 cfs

3,190 cfs

MAXIMUM 13,000 cfs on May 21

13,000 cfs on May 21, 1963

MAXIMUM INSTANTANEOUS

MINIMUM 436E cfs on April 3 and 4

436E cfs on April 3 and 4, 1963

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to April 30 and from November 16.

I - Interpolated.

E - Estimated to April 3 and from November 26.

Stage discharge relation is extrapolated above 12,700 cfs and below 440 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - This figure includes an area of 778 square miles of which the flow is divided between Coast River and Quenet Channel.

PETITE RIVIERE DE LA BALEINE

20.0 MI. DOWNSTREAM FROM ANCEL CHANNEL

STATION NUMBER 094203

DRAINAGE AREA - 4430 SQ. MI.**

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	6,060	3,610	4,740	5,100	4,100E
2	--	--	--	--	--	--	--	5,870	3,500	4,830	5,100	4,060
3	--	--	--	--	--	--	--	5,750	3,520	4,980	5,100	3,990
4	--	--	--	--	--	--	--	5,650	3,500	5,120	5,100	3,910
5	--	--	--	--	--	--	--	5,480	3,520	5,120	5,100B	3,890
6	--	--	--	--	--	--	--	5,300	3,540	5,120	5,100	3,870
7	--	--	--	--	--	--	--	5,260	3,580	5,120	5,100	3,800
8	--	--	--	--	--	--	--	5,190	3,540	5,120	5,100	3,800
9	--	--	--	--	--	--	--	5,020	3,540	5,300	5,100	3,800
10	--	--	--	--	--	--	--	5,120	3,550	5,480	5,100	3,790
11	--	--	--	--	--	--	--	5,020	3,550	5,480	5,100	3,780
12	--	--	--	--	--	--	--	4,930	3,550*	5,480	5,070	3,750
13	--	--	--	--	--	--	--	4,860	3,580	5,480	4,930	3,740
14	--	--	--	--	--	--	--	4,720	3,600	5,480	4,830	3,720
15	--	--	--	--	--	--	--	4,560	3,610	5,390	4,760	3,700
16	--	--	--	--	--	--	--	4,500	3,630	5,370	4,760	3,690
17	--	--	--	--	--	--	--	4,470	3,650	5,480	4,760	3,660
18	--	--	--	--	--	--	--	4,420	3,690	5,480	4,640	3,620
19	--	--	--	--	--	--	--	4,420	3,770	5,480	4,570	3,600
20	--	--	--	--	--	--	--	4,370	3,930	5,480	4,570	3,560
21	--	--	--	--	--	--	--	4,370	4,030	5,400	4,590	3,530
22	--	--	--	--	--	--	--	4,340	4,080	5,300	4,570	3,500
23	--	--	--	--	--	--	6,930*	4,260	4,110	5,300	4,570	3,440
24	--	--	--	--	--	--	6,700	4,270	4,120	5,300	4,570	3,400
25	--	--	--	--	--	--	6,660	4,240	4,140	5,370	4,420	3,350
26	--	--	--	--	--	--	6,620	4,170	4,170	5,460	4,400	3,320
27	--	--	--	--	--	--	6,580	4,030	4,240	5,460	4,400	3,280
28	--	--	--	--	--	--	6,520	3,950	4,420	5,280	4,240	3,220
29	--	--	--	--	--	--	6,470	3,850	4,560	5,210	4,240E	3,180
30	--	--	--	--	--	--	6,280	3,800	4,620	5,100	4,200	3,120
31	--	--	--	--	--	--	6,170	3,740	--	5,100	--	3,100
MEAN	--	--	--	--	--	--	--	4,710	3,820	5,280	4,770	3,620E
MAX.	--	--	--	--	--	--	--	6,060	4,620	5,480	5,100	4,100E
MIN.	--	--	--	--	--	--	--	3,740	3,500	4,740	4,200E	3,100E

FOR THE YEAR 1962

MEAN

MAXIMUM

6,930 cfs on July 23

MAXIMUM INSTANTANEOUS

MINIMUM

3,100E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 5.

E - Estimated from November 29.

Stage discharge relation is extrapolated above 8,600 cfs and below 4,040 cfs.

Accuracy of records: fair.

** - The flow from this drainage basin is divided between Nastapoca River, Boutin River and the Petite Rivière de la Baleine.

PETITE RIVIERE DE LA BALEINE

20.0 MI. DOWNSTREAM FROM ANCEL CHANNEL

STATION NUMBER 094203

DRAINAGE AREA - 4430 SQ. MI. **

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	3,030E	1,910E	1,510E	1,420E	1,800E	7,800E	7,100	5,510	--	--	--	--
2	2,990	1,890	1,510	1,420	1,900	7,900	7,040*	5,510	--	--	--	--
3	2,940	1,870	1,500	1,420	2,000	8,000	7,020	5,510	--	--	--	--
4	2,900	1,840	1,500	1,420	2,100	8,100	6,810	5,640	--	--	--	--
5	2,830	1,820	1,490	1,420	2,230	8,150	6,580	5,710	--	--	--	--
6	2,800	1,810	1,490	1,420	2,370	8,200	6,350	5,710	--	--	--	--
7	2,750	1,790	1,480	1,420	2,530	8,200E	6,340	5,730	--	--	--	--
8	2,700	1,770	1,480	1,420	2,700	8,190*	6,110	5,760	--	--	--	--
9	2,650	1,750	1,480	1,420	2,830	8,240	6,090	5,800	--	--	--	--
10	2,600	1,730	1,470	1,420	3,000B	8,540	5,910	5,930	--	--	--	--
11	2,550	1,710	1,470	1,420	3,200	8,650	5,870	5,930	--	--	--	--
12	2,520	1,700	1,470	1,420	3,400	8,670	5,850*	6,020	--	--	--	--
13	2,490	1,680	1,460	1,420	3,600	8,810	5,870	6,130	--	--	--	--
14	2,440	1,670	1,460	1,420	3,800	8,900	5,870	6,130	--	--	--	--
15	2,400	1,660	1,450	1,420	4,000	8,750	5,890	6,130	--	--	--	--
16	2,370	1,640	1,440	1,430	4,300	8,730	5,890	6,150*	--	--	--	--
17	2,330	1,630	1,440	1,430	4,600	8,750	5,930	6,170	--	--	--	--
18	2,300	1,610	1,440	1,430	4,850	8,770	5,820	6,210	--	--	--	--
19	2,270	1,600	1,440	1,440	5,180	8,770	5,670	6,260	--	--	--	--
20	2,230	1,590	1,430	1,450	5,250	8,580	5,580	6,520	--	--	--	--
21	2,200	1,580	1,430	1,460	5,700	8,420	5,460	6,660	--	--	--	--
22	2,180	1,580	1,430	1,480	5,950	8,220	5,420	6,580	--	--	--	--
23	2,150	1,570	1,430	1,490	6,190	8,220	5,460	6,520	--	--	--	--
24	2,120	1,560	1,430	1,510	6,400	8,030	5,280	6,540	--	--	--	--
25	2,090	1,550	1,430	1,540	6,600	7,850	5,230	6,660	--	--	--	--
26	2,050*	1,540	1,430	1,560	6,800	7,670	5,300	6,560	--	--	--	--
27	2,200	1,530	1,430	1,600	7,000	7,530	5,230	6,510*	--	--	--	--
28	2,000	1,520*	1,420	1,640	7,200	7,330	5,120	--	--	--	--	--
29	1,990	--	1,420	1,700	7,400	7,290*	5,140	--	--	--	--	--
30	1,960	--	1,420	1,750	7,500	7,220	5,240	--	--	--	--	--
31	1,940	--	1,420*	--	7,700	--	5,400	--	--	--	--	--
MEAN	2,420E	1,680E	1,450E	1,470E	4,520E	8,220E	5,870	--	--	--	--	--
MAX.	3,030E	1,910E	1,510E	1,750E	7,700E	8,900	7,100	--	--	--	--	--
MIN.	1,940E	1,520*	1,420E	1,420E	1,800E	7,220	5,120	--	--	--	--	--

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (... Years)

MEAN

MAXIMUM

8,900 cfs on June 14

8,900 cfs on June 14, 1963.

MAXIMUM INSTANTANEOUS

8,920 cfs on June 13 at 3 p.m.

8,920 cfs on June 13, 1963 at 3 p.m.

MINIMUM

1,420E cfs, March 28 to April 15

1,420E cfs, March 28 to April 15, 1963

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 10.

E - Estimated to June 7.

Stage discharge relation is extrapolated above 8,600 cfs and below 4,040 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - The flow from this drainage basin is divided between Nastapoca River, Boutin River and the Petite Rivière de la Baleine.

This Station was discontinued on August 27, 1963.

PETITE RIVIERE DE LA BALEINE

4.2 MI. UPSTREAM FROM THE ANCEL CHANNEL

STATION NUMBER 094206

DRAINAGE AREA - 4220 SQ. MI. **

STATION IN OPERATION SINCE 1963

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	6,170*	--	5,520	5,230	4,330	3,400E
2	--	--	--	--	--	--	--	--	5,520	5,230	4,330	3,400
3	--	--	--	--	--	--	--	--	5,520	5,230	4,330	3,400
4	--	--	--	--	--	--	--	--	5,300	5,230	4,330	3,400
5	--	--	--	--	--	--	--	--	5,210	5,230	4,330B	3,400
6	--	--	--	--	--	--	--	--	5,120	5,230	4,320	3,400
7	--	--	--	--	--	--	--	--	5,120	5,230	4,310	3,400
8	--	--	--	--	--	--	--	--	5,120	5,230	4,300	3,390
9	--	--	--	--	--	--	--	--	5,120	5,250	4,280	3,380
10	--	--	--	--	--	--	--	--	5,120	5,210	4,210	3,350
11	--	--	--	--	--	--	4,980*	--	5,120	5,000	4,180	3,340
12	--	--	--	--	--	--	--	--	5,120	5,000	4,120	3,330
13	--	--	--	--	--	--	--	--	5,120	5,000	4,050	3,320
14	--	--	--	--	--	--	--	--	5,120	5,000	3,990	3,300
15	--	--	--	--	--	--	--	--	5,120	5,000	3,930	3,300
16	--	--	--	--	--	--	--	--	5,140	4,770	3,850	3,300
17	--	--	--	--	--	--	--	--	5,140	4,770	3,800	3,290
18	--	--	--	--	--	--	--	--	5,140	4,770	3,730	3,280
19	--	--	--	--	--	--	--	--	5,160	4,770	3,680	3,260
20	--	--	--	--	--	--	--	--	5,160	4,770	3,630	3,230
21	--	--	--	--	--	--	--	--	5,160	4,660	3,600	3,200
22	--	--	--	--	--	--	--	--	5,180	4,660	3,550	3,180
23	--	--	--	--	--	7,520*	--	--	5,180	4,770	3,530	3,140
24	--	--	--	--	--	--	--	--	5,180	4,770	3,520E	3,100
25	--	--	--	--	--	--	--	--	5,210	4,770	3,510	3,080
26	--	--	--	--	--	--	--	5,520*	5,210	4,770	3,500	3,030
27	--	--	--	--	--	--	--	5,520	5,210	4,770	3,490	2,990
28	--	--	--	--	--	--	--	5,520	5,210	4,730	3,450	2,920
29	--	--	--	--	--	--	--	5,520	5,230	4,530	3,430	2,880
30	--	--	--	--	--	--	--	5,520	5,230	4,330	3,410	2,830
31	--	--	--	--	--	--	--	5,520	--	4,330	--	2,800
MEAN	--	--	--	--	--	--	--	--	5,200	4,910	3,900E	3,230E
MAX.	--	--	--	--	--	--	--	--	5,520	5,250	4,330	3,400E
MIN.	--	--	--	--	--	--	--	--	5,120	4,330	3,410E	2,800E

FOR THE YEAR 1963

MEAN

MAXIMUM

7,520 cfs on June 23

MAXIMUM INSTANTANEOUS

MINIMUM

2,800E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 5.

E - Estimated from November 24.

Stage discharge relation is extrapolated above 12,000 cfs and below 1,420 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - The flow from this drainage basin is divided between Nastapoca River, Ancel Channel, Boutin River and the Petite Rivière de la Baleine.

BOUTIN

11.5 MI. DOWSTREAM FROM THE QUENET CHANNEL

STATION NUMBER 094201

DRAINAGE AREA - 557 SQ. MI. **

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1962

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	1,550*	--	--	--	--
3	--	--	--	--	--	--	--	--	--	1,360	--	--
4	--	--	--	--	--	--	--	--	--	1,270	--	--
5	--	--	--	--	--	--	--	--	--	1,350	--	--
6	--	--	--	--	--	--	--	--	--	1,410	--	--
7	--	--	--	--	--	--	--	--	--	1,450	--	--
8	--	--	--	--	--	--	--	--	--	1,450	--	--
9	--	--	--	--	--	--	--	--	--	1,440	--	--
10	--	--	--	--	--	--	--	--	--	1,440	--	--
11	--	--	--	--	--	--	--	--	--	1,440	--	--
12	--	--	--	--	--	--	--	--	--	1,490	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	1,000*	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.

Stage discharge relation is extrapolated above 8,800 cfs and below 365 cfs.

Accuracy of records: good.

** - This figure excludes an area of 4,220 square miles of which the flow is divided between Nastapoca River, Ancel Channel, Boutin River and the Petite Rivière de la Baleine, and also an area of 778 square miles of which the flow is divided between Quenet Channel and the Coast River.

BOUTIN

11.5 MI. DOWSTREAM FROM THE QUENET CHANNEL

STATION NUMBER 094201

DRAINAGE AREA - 557 SQ. MI. **

STATION IN OPERATION SINCE 1962

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	465E	378E	319E	269E	420	3,810E	2,160	1,480	2,120	2,430	1,860	1,510E
2	462	375	317	268	480	3,870	2,110	1,480	2,130	2,400	1,860	1,490
3	460	372	314	267	530	3,950	2,000*	1,460	2,070	2,400	1,860	1,480
4	457	370	312	266	597	4,010	1,880	1,460	2,020	2,400	1,860B	1,460
5	455	370	310	265	747B	4,040	1,830	1,520	2,030	2,400	1,860E	1,440
6	450	368	308	265	838	4,050	1,760	1,570	2,110	2,400	1,850	1,420
7	445	365	306	265	920	4,050	1,730	1,570	2,180	2,400	1,840	1,400
8	443	362	304	265	1,050	4,050	1,630	1,670	2,260	2,400	1,830	1,380
9	440	360	302	265	1,190	4,050	1,630	1,730	2,340	2,340	1,820	1,370
10	437	358	301	264	1,220	3,960E	1,530*	1,790	2,360	2,260	1,800	1,350
11	435	357	300	263	1,260	3,920*	1,500	1,790	2,370	2,260	1,780	1,320
12	431	353	298	262	1,300	3,920	1,480	1,780	2,390	2,260	1,760	1,300
13	427	350	297	261	1,390	3,750	1,440	1,780	2,460	2,260	1,700	1,270
14	425	349	295	260	1,400	3,750	1,430	1,780	2,540	2,230	1,640	1,250
15	423	348	293	260	1,440	3,750	1,430	1,780	2,540	2,120	1,640	1,230
16	420	345	292	260	1,510	3,600	1,440	1,780	2,460	2,120	1,630	1,210
17	417	342	290	260	1,500	3,390	1,440	1,780	2,390	2,120	1,620	1,190
18	415	340	289	260	1,580	3,290	1,350	1,780	2,390	2,120	1,620	1,170
19	410	338	287	259	1,720	3,270	1,350	1,780	2,390	2,120	1,620	1,140
20	407	337	286	258	1,830E	3,150	1,410	1,790	2,390	2,020	1,620	1,120
21	405	335	284	260	2,000	3,130	1,460	1,910	2,390	1,990	1,610	1,100
22	400	333	282	261	2,150	3,090*	1,500	1,980	2,460	1,990	1,600	1,080
23	400	330	281	263	2,340	2,940	1,560	2,190	2,550	1,990	1,600	1,060
24	397	329	280	270	2,580	2,780	1,590	2,220	2,550	1,990	1,590	1,040
25	395	328	278	275	2,740	2,630	1,590	2,340	2,550	1,990	1,580	1,020
26	392	326	277	284	2,960	2,560	1,570*	2,340	2,540	1,990	1,570	1,000
27	390*	322	276	294	3,180	2,420	1,590	2,340*	2,400	1,990	1,550	985
28	387	321*	274	310	3,290	2,420	1,540	2,360	2,400	1,990	1,540	965
29	385	--	272	335E	3,470	2,350	1,490	2,270	2,400	1,990	1,530	948
30	382	--	271	380	3,600	2,160	1,480	2,230	2,400	1,990	1,510	930
31	380	--	270*	--	3,700	--	1,480	2,180	--	1,860	--	928
MEAN	421E	349E	292E	273E	1,770E	3,400E	1,590	1,870	2,350	2,170	1,690E	1,210E
MAX.	465E	378E	319E	380	3,700E	4,050E	2,160	2,360	2,550	2,430	1,860	1,510E
MIN.	380F	321*	270*	258E	420	2,160	1,350	1,460	2,020	1,860	1,510E	928E
M.F.C.	.289	.239	.201	.187	1.219	2.341	1.095	1.285	1.618	1.491	1.163	.833

FOR THE YEAR 1963

FOR ALL THE YEARS RECORDED (1 Year)

MEAN

1,450 cfs

1,450 cfs

MAXIMUM

4,050E cfs, June 6 to 9

4,050E cfs, June 6 to 9, 1963

MAXIMUM INSTANTANEOUS

MINIMUM

258E cfs on April 20

258E cfs on April 20, 1963

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect to May 5 and from November 4.

E - Estimated to April 29, May 20 to June 10 and from November 5.

Stage discharge relation is extrapolated above 8,800 cfs and below 365 cfs.

Accuracy of records: periods without effect of ice, good; those with ice effect, poor.

** - This figure excludes an area of 4,220 square miles of which the flow is divided between Nastapoca River, Ancel Channel, Boutin River and the Petite Rivière de la Baleine, and also an area of 778 square miles of which the flow is divided between Quenet Channel and the Coast River.

BOUTIN

6.9 MI. UPSTREAM FROM THE QUENET CHANNEL

STATION NUMBER 094204

DRAINAGE AREA - 471 SQ. MI. **

STATION IN OPERATION SINCE 1963

GAUGE - RECORDING

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	1,400	991C	1,360	1,590	1,170C	740E
2	--	--	--	--	--	--	1,330	991	1,440	1,620	1,160	735
3	--	--	--	--	--	--	1,240*	999	1,440	1,530	1,160	720
4	--	--	--	--	--	--	1,200	1,010	1,440	1,530	1,150B	720
5	--	--	--	--	--	--	1,180	1,020	1,440	1,530	1,150	710
6	--	--	--	--	--	--	1,110	962	1,510	1,530	1,140	705
7	--	--	--	--	--	--	1,040	962	1,540	1,520	1,130	700
8	--	--	--	--	--	--	1,030	999	1,630	1,460C	1,130	695
9	--	--	--	--	--	--	969	1,010	1,630	1,420	1,120	685
10	--	--	--	--	--	--	940*	1,010	1,630	1,390	1,100	680
11	--	--	--	--	--	--	1,010	1,010	1,630	1,380	1,080	675
12	--	--	--	--	--	2,390*	1,050	1,030C	1,630	1,380	1,060	665
13	--	--	--	--	--	2,410	1,080	1,040	1,630	1,370	1,030	660
14	--	--	--	--	--	2,310	1,050	1,040	1,630	1,350	1,000	655
15	--	--	--	--	--	2,310	1,010	1,080	1,630	1,310	980C	645
16	--	--	--	--	--	2,280	1,020	1,080*	1,640	1,300	940E	640
17	--	--	--	--	--	2,190	980C	1,130	1,640	1,300	920	635
18	--	--	--	--	--	2,120	980	1,190	1,640	1,290	900	630
19	--	--	--	--	--	2,070	980	1,240	1,640	1,290	880	625
20	--	--	--	--	--	1,950	980	1,330	1,650	1,280	860	615
21	--	--	--	--	--	1,950	1,000	1,390	1,650	1,270	855	610
22	--	--	--	--	--	1,890	948	1,440	1,580	1,260	840	600
23	--	--	--	--	--	1,840	948	1,500	1,590	1,250	825	595
24	--	--	--	--	--	1,780	980	1,550	1,580	1,240	815	590
25	--	--	--	--	--	1,650	980	1,460	1,570	1,230	800	585
26	--	--	--	--	--	1,640	980	1,490	1,570	1,220	790	580
27	--	--	--	--	--	1,560	990	1,510*	1,570	1,210	780	575
28	--	--	--	--	--	1,550	1,030	1,520	1,580E	1,200	775	565
29	--	--	--	--	--	1,420*	958	1,430	1,580	1,200	760	563
30	--	--	--	--	--	1,420	958	1,430	1,580E	1,190	750	560
31	--	--	--	--	--	--	999	1,430	--	1,190	--	550
MEAN	--	--	--	--	--	--	1,050E	1,200E	1,580	1,350E	968E	642E
MAX.	--	--	--	--	--	--	1,400	1,550	1,650	1,620	1,170C	740E
MIN.	--	--	--	--	--	--	948C	962C	1,360	1,180C	750E	550E

FOR THE YEAR 1963

MEAN

MAXIMUM

2,410 cfs on June 13

MAXIMUM INSTANTANEOUS

MINIMUM

550E cfs on December 31

MINIMUM INSTANTANEOUS

NOTES:

* - Discharge measurement.

B - Ice effect from November 4.

C - By comparison with Boutin River downstream from Quenet Channel, July 17 to August 12, and October 8 to November 15.

E - Estimated September 28 to 30 and from November 16.

Stage discharge relation is extrapolated above 6,600 cfs and below 1,000 cfs.

Accuracy of records: periods without effect of ice, fair; those with ice effect, poor.

** - This figure excludes an area of 4,220 square miles of which the flow is divided between Nastapoca River, Ancel Channel, the Boutin River and the Petite Rivière de la Baleine.

BOUTIN

AT OUTLET OF MOLLET LAKES

STATION NUMBER 094205

DRAINAGE AREA - 4220 SQ. MI. **

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	--	--	--	--	769*	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	546*	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	1,110*	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.

Accuracy of records: fair.

** - The flow from this drainage basin is divided between Nastapoca River, Boutin River and the Petite Rivière de la Baleine.

ANCEL CHANNEL

7.6 MI. UPSTREAM FROM THE PETITE RIVIERE DE LA BALIENE

STATION NUMBER 094202

DRAINAGE AREA 75 SQ. MI.**

NATURAL DAILY DISCHARGES

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1963

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	--	--	101*	--	--	--	--	--	--	881	--	--
2	--	--	--	--	--	--	875*	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	1,180*	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	790*	--	1,060	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	1,000*	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	866*	896*	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	238*	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX.	--	--	--	--	--	--	--	--	--	--	--	--
MIN.	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

* - Discharge measurement.
Accuracy of records: poor.

** - This figure excludes an area of 2,870 square miles of which the flow is divided between Ancel Channel, Nastapoca River and the Petite Rivière de la Baleine.

Stations for which discharges were published by the Federal Government in Water Resources Papers and for which revised data are included in the present publication

Federal Government Paper			Year	Quebec - AH-2	
Name of the Station	Station No.	Paper No.		Station No.	Page
Bell, at Mattagami	3 AC-4	140, 143 143	1962 1963	080707	8
Broadback, downstream from Waswagami River	3 BE-1	133, 137 137, 140 140, 143 143	1960 1961 1962 1963	080801	27
Eastmain, at Basile Gorge	3 CC-1	129, 133 133, 137 137, 140 140, 143 143	1959 1960 1961 1962 1963	090601	64
Grande Rivière (Fort Georges), downstream from the Achazi River	3 DF-1	129, 133 133, 137 137, 140 140, 143 143	1959 1960 1961 1962 1963	092704	101
Grande Baleine (Riv. de la), at First Falls upstream from the Mouth	3 ED-1	129, 133 133, 137 137, 140 140, 143 143	1959 1960 1961 1962 1963	093803	171
Nottaway, downstream from Mattagami Lake	3 AD-1	133, 137 137, 140 140, 143 143	1960 1961 1962 1963	080701	1
Rupert, at Nemiscau Lake	3 BC-1	115 115 115 115 115, 119 119 119, 126 126, 129 129, 133 133, 137 137, 140 140, 143 143	1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963	081001	34
Waswanipi, at Waswanipi Lake	3 AB-1	115 115 115 115 115 115, 119 119 119, 126 126, 129 129, 133 133, 137 137, 140 140, 143 143	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963	080702	10
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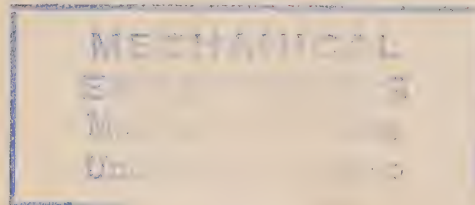
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